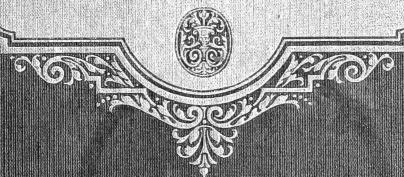
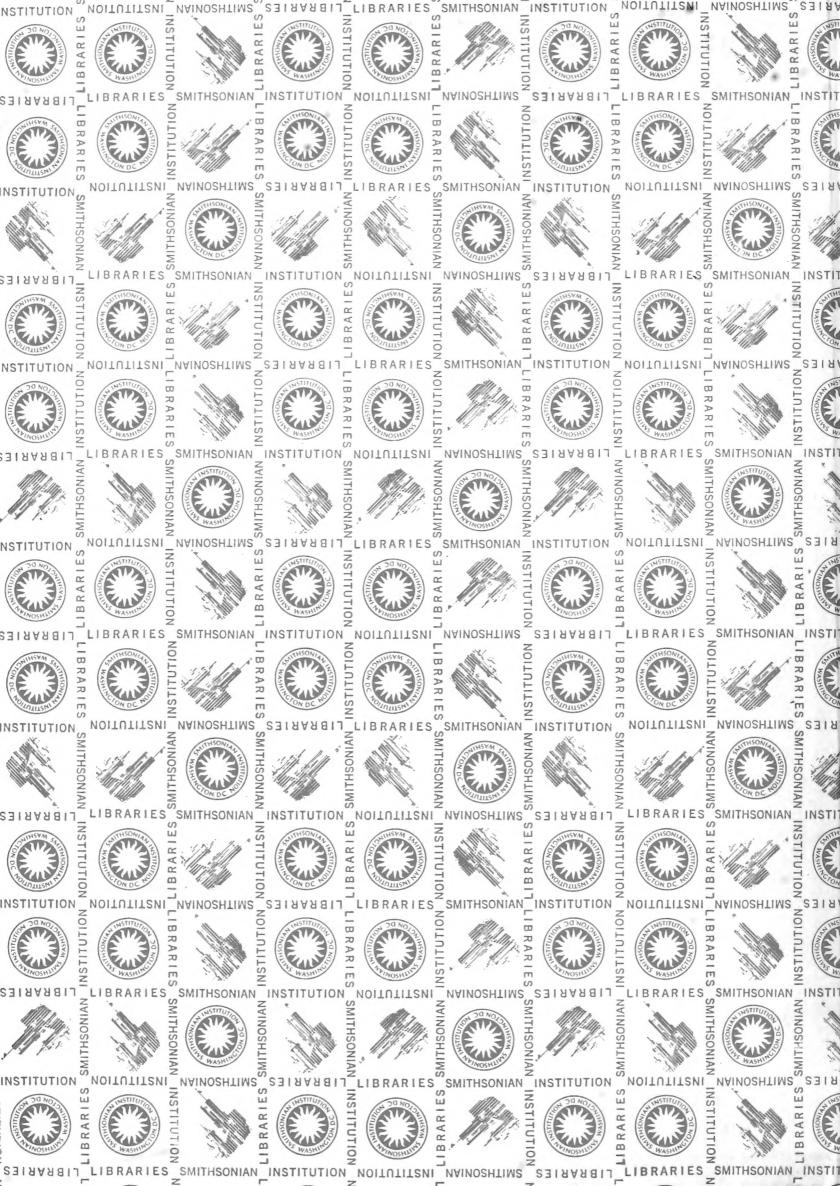
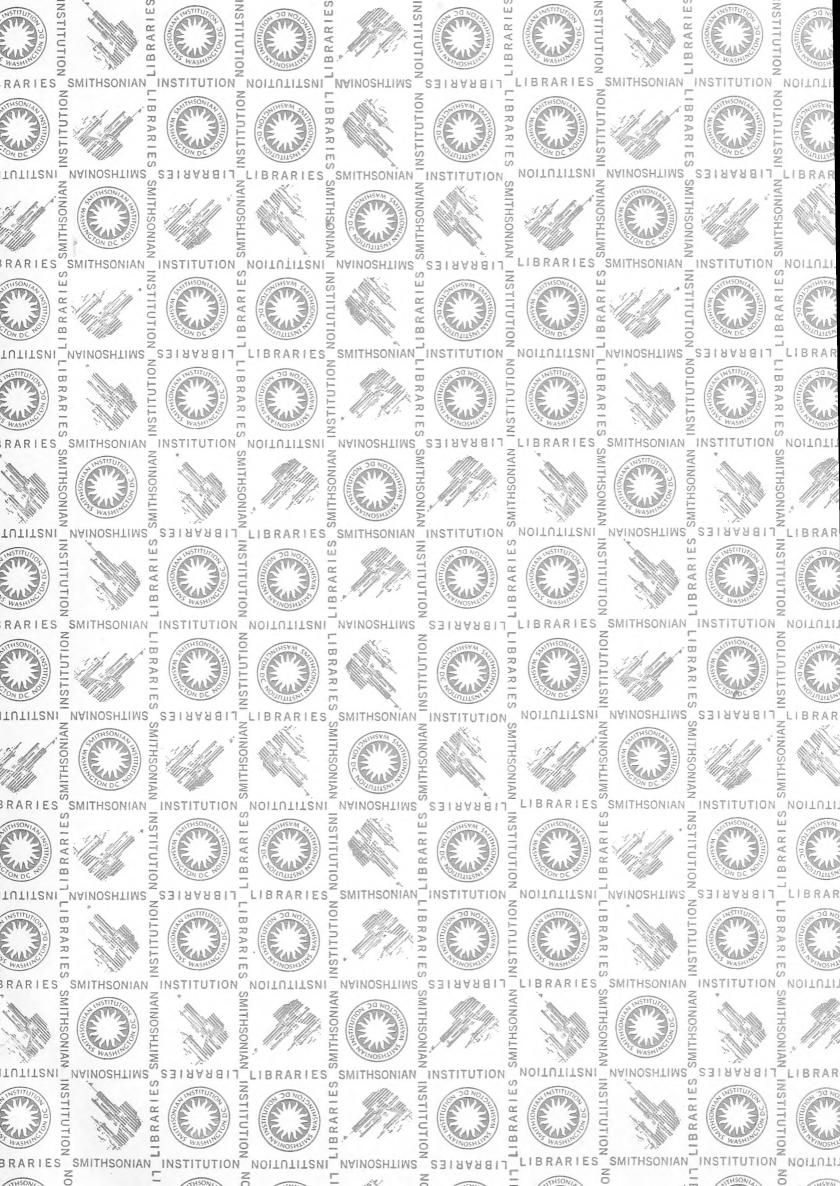


# HOUSE & GARDEN'S BOOK GARDENS



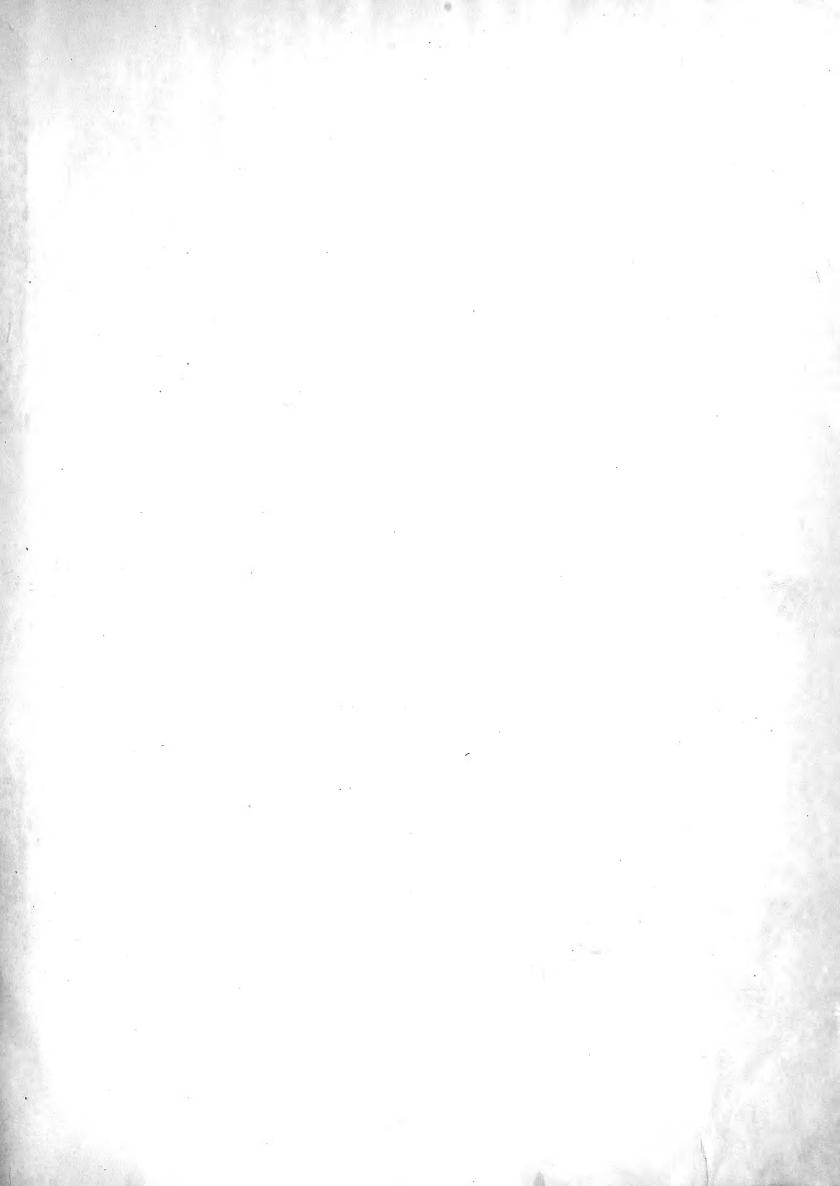


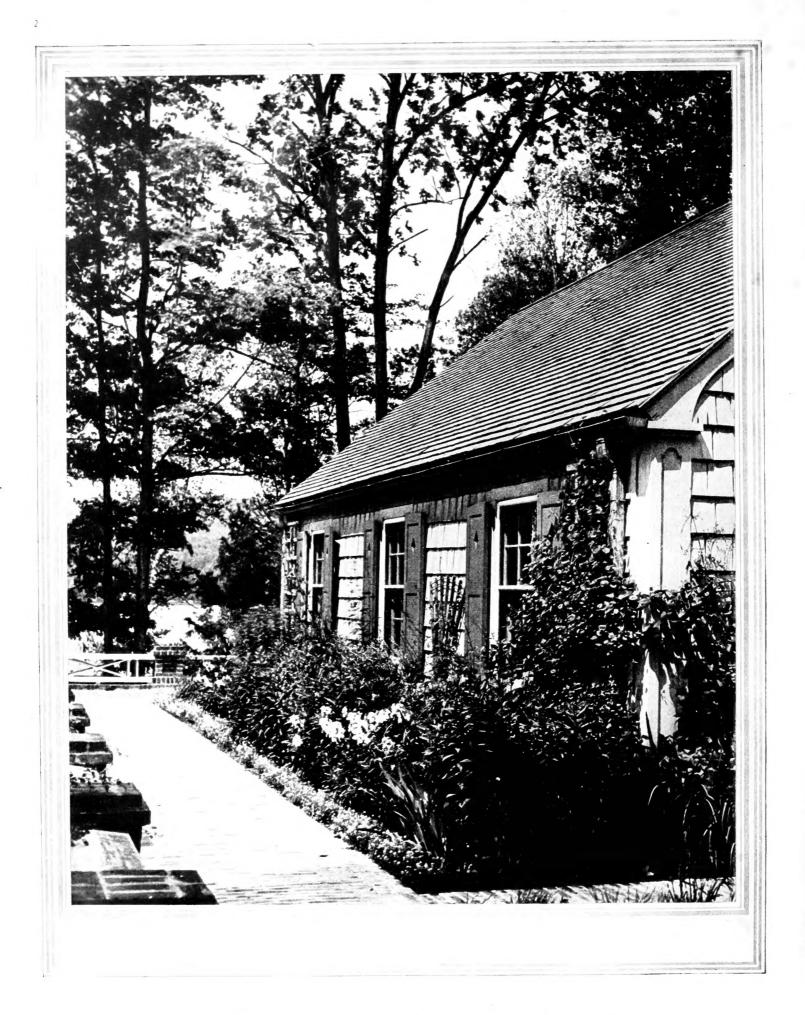












#### A COTTAGE GARDEN FOR SPRING AND FALL

On the estate of Clarence S. Hay at Newbury, N. H., is a little cottage for spring and fall occupancy. The garden that surrounds it is filled with herbaceous plants that bloom profusely both early and late. Prentice Sanger was the landscape architect

## HOUSE & GARDEN'S BOOK of GARDENS

Containing over Four Hundred Illustrations of Special Flower Types, Plans and Suggestions for Landscape Work, a Complete Gardener's Calendar of the Year's Activities, Planting and Spraying Tables, and A Portfolio of Beautiful Gardens in Varied Sections of the United States and Foreign Countries

Edited by RICHARDSON WRIGHT

Editor of House & Garden

1921 NEW YORK CONDÉ NAST & COMPANY Reepi

#### The HOUSE & GARDEN BOOKS

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#### THE ROAD TO ARCADY

Any garden path is a road to Arcady. Set foot upon it, and inexitably the way leads out of this complex world into a lovelier kingdom where for towering structures you have the trees, for canyon stree's the green hedge, for city noises the soothing of gentle winds and the music of birds and the Fling water, for the city stench, the perfume of

blossoms. Doubly blest is the man whose road to Arcady ties down a garden path where flowers crop up between the flagstones, where sweet alyssum and petunias spill over the roadway and giant asters salute him as he passes. So it is in the garden of L. H. Lapham at New Canaan, Conn. William B. Tubby was the architect



#### THE MIRACLE WORKERS OF THE GARDEN

In the Humbling Touch of Earth Is Found the Exalting Mystery of the Garden's Gods

#### RICHARD Le GALLIENNE

WE take gardens, as we take all our mercies nowadays, too lightly.

Recently a friend of mine, speaking of his

Recently a friend of mine, speaking of his garden, said to me that it made him very "humble". It was one of those remarks for which one grows increasingly grateful; for humility, the only attitude by which it is possible to know anything worth knowing, has become an almost extinct species of human feeling; and I am far from sure that I can safely leave my friend's remarks entirely without commentary. So few feel like him, that for many, I fear, it will have no meaning. Of course, he meant that his garden continually brought before him, so impressively, with such fresh wonder, the miracle and the mystery of the vital, the cosmic process.

No one yet knows how or why a flower grows. We have discovered radium, and employed delicate and terrible natural forces to fearful ends; but we are as far from knowing that as ever. Still, as the present writer once had the honor of saying: "A grass-seed and a thimbleful of soil set all the sciences at nought." Still Tennyson's "flower in the crannied wall" baffles all the pundits.

Unless you feel like that about your garden, you might as well have no garden. Indeed, you have no garden. You may have a dozen gardeners—but that is another matter. As a general rule, one may say: the more gardeners, the less garden. For the real garden is born, and very little made.

No one has ever really loved a garden without having had at times the sense of a divine presence dwelling there, moving softly behind curtains of leaves, some busy, watchful kindness secretly at work with blade and blossom and the mounting sap, and falling suddenly silent at our first foot-fall, like a shy bird. A ancy, of course-and yet would there be anything more remarkable in the fact of certain natural processes being presided over by especially appointed spiritual guardians than there is wonder in the processes themselves? Though there be no individual accessible divinity behind the blossoming of an apple orchard, the process itself is divine, and just as mysterious as if there were.

Numen inest, said the old Roman, with proper reverence and a profound insight in the presence of such natural manifestations; and he who does not feel, as he. that deity is present "in gardens when the eve is cool" profanes the sanctuary.

AGARDEN is indeed a sanctuary of natural religion. Upon it are concentrated the power and the glory and the tenderness of natural forces. From above and below there are focused upon it the mysterious operations of sun and rain and dew, in unison with the chemic, one feels like saying the alchemic, properties of the soil itself.

properties of the soil itself.

The man who looks after

The man who looks after his own garden is continually in the presence of the inspiring strangeness, the ever new surprise and thrill of the creative marvel. He takes a bulb in his hand, dry and crackling and to all appearances dead as an Egyptian mummy. Scmewhere within its tiny cerements hides the spark of life; though, should he unfold one layer after the other, he would seek in vain for its presence. So the man of science seeks for the soul of man in his body, and not finding it, pronounces it non-existent. Who would believe that this dry and dusty relic when buried an inch or two in dark earth, seemingly as unvital as itself, mere inert matter to all appearance, shall be met there in the darkness with warm awakening energies, immediately taking it into their care; that it and the earth alike are as ready to catch fire as phosphorus itself, vividly responsive one to the other; and that,

after a while, thus subterraneously nourished, fed from above also by stealing rains and dews, and hotly kissed through its mask of earth by that mighty shining which has traveled millions of miles through ethereal space, to assist at this miniature marvel, it shall jet up into the April morning, a curiously carved cone of waxen petals pouring fragrance—a hyacinth. A hyacinth—yes! But how much more to the man who has watched while it thus came into being.

I sometimes wish that Adam—the first gardener, as Hamlet's gravedigger remarked—had left the creation without names; for names have a curious way of robbing things of their proper value, and particularly of their first strangeness. Something arrests us either by its beauty or its unfamiliarity, and we immediately ask what it is. While no one tells us, we remain curious, but from the moment we hear its name, its interest for us diminishes: it takes its place in the category of familiar things, though, of course, we know no more about it than ever. So one says "a hyacinth" or "a rose" thoughtlessly, as though we knew all about them, almost indeed as though we could make them ourselves had we a mind to.

Yet the names of flowers have often, as in this case of the hyacinth, an association value which gives a lift to the imagination. It certainly adds to its magic for us to recall that this is the flower that the Greeks believed to have sprung from the grave of Hyacinthus, the beautiful youth accidentally killed by Apollo as they played at quoits together. Still one can read "Alas! Alas!" in Greek upon its petals. So long ago the flowers we love were in the world; and such associations, though they are but subsidiary to the natural inspiration of gardens, are poignant remembrances of lovely half-forgotten things, romantic lives long since ended, beautiful faces that once bent over these very flowers, or those poets who have brought them the added enchantment of their songs.

EVEN though you utterly neglect your garden, it will flame in a glory of weeds; for, first and last, it is a mystic piece of God's earth, potential with all those magical energies that of their very strength bring forth beauty. Every foot of it conceals buried treasures of untold value—gold and silver, ivory and myrrh, fretted imageries, carved chalices, and a hoard of fragrant things.



#### DAFFODILS

Gray is the city as a gray-beard Jew.
Steel, paper, shoes, a thousand sordid things,
Crowd the dull windows, fill the humming hives,
Busy the piteous-eager heart of men.

Yet on a day when light the wafting wind Teased the grim giant with a hint of spring, There between buildings broke the sunlight through, And lo! an arched dark window was ablaze With the gold splendor of the daffodils!

Who said the day of miracles was done? I saw with my two eyes, and felt my heart Go fluting "April!" all the wintry day. And I shall never pass that way again Without remembrance of the swift surprise—Here in the sun the jonquils' spendthrift gold; At the street's end the blue, resounding sea!

-Sara Hamilton Birchall.

#### BUILDING THE HARDY BORDER

From These Selections of Herbaceous Perennials One Can Have

A Gorgeous Display Each Year

O scheme of garden building is at once so effective and so easily maintained as a hardy border. Perennial plants need seldom to be renewed; in fact, it sooner becomes necessary to find an outlet for the overflow than to set in new plants. This overflow, if one hastarted out with choice named varieties, has a commercial value. A fuller satisfaction, how ever, is discovered when one finds that there are enough plants to give away. For isn't at least half the joy of possession the pleasure of sharing your abundance with another? Moreover, in the herbaceous plant ing there is scarcely a dull moment. Growth starts with the earliest hint of warm weather and continues almost until snow flies. During the first few weeks we have the interest of rapidly developing plants. From the time the earliest flowers come, in April or May, there is a succession of bloom until late fall.

The garden lover looks forward to these recurring seasons as she anticipates the visit of an old friend. Association comes to hover about them, as about old books and the old haunts that one frequents. For the more prosaic there is the scientific interest in comparing the growth and performance of one year with another. By all means keep a note book.

The most effective location for such a planting is, probably, along the far edge of the lawn, where it will be viewed mainly from the house. Such a border may be about the foundations of the house, though this is of all locations the least desirable as it will not be seen to advantage from the windows of the house. A backyard is a

good situation, particularly if one can run the border about the yard and can spare ground for a bit of green, be it never so small, in the center.

There is nothing more charming than a walk between two borders, the double border of English gardens, a feature of endless possibilities which we in America neglect almost



The beautiful, creamy, white-flowered dwarf phlox Tapis Blanc is without a rival for its place in the very front of the border

altogether. This type of border, however, allows a different planting than the more usual single border, for in this case less thought need be given to its effectiveness at a distance. One might almost characterize the planting as more intimate, for it is to be seen from near at hand, and the interest is more likely to be busied with single specimens than with the broad

effect of the whole. It is this broad effect that should always be kept in mind when planning and executing the single border.

The first principle to remember is that the best results are always to be obtained by simple and broad treatment. That it is better to paint from a simple palette, with a minimum of color mixing, is a maxim equally good for the painter and gardener. In either case, we are making a picture. The problem of the border is complicated by the fact that it is a series of pictures we must plan for.

Growth in a border starts, of course, simultaneously with that of the grass and the leaves on the trees. This early growth shows a variety of light, delicate greens and reddish browns that not only are beautiful in themselves, but have great diversity in habit of growth and texture and shape of leaf.

The earliest flowering plant is the lupin. Now the lupin (Polyphyllus, the perennial variety) comes in white, pink and blue. The white is a flower of exquisite purity and grace. The blue, however, runs to reddish tones and the usual pink lupin rather suggests lavender. There is a recently introduced lupin of a purer pink that, in



Inspector Elpel, a late flowering phlox, blooms well into September, when the fall asters begin. This view and the others are of the garden of John L. Rea, at Plattsburgh, N. Y., who also contributes the text



combination with the white, forms a beautiful group. The lupin is a fair sized plant, with perhaps a dozen stalks 2' to 3' tall.

While the latter glory, he

By the time the lupins begin to fade the iris will come into flower. Only the so-called self-colored sorts seem sufficiently assertive to be suitable for a planting of this nature.

Mrs. H. Darwin is a most satisfactory white, of rather dwarf habit. Madame Chereau is the tall and stately variety with somewhat elongated white flowers with blue laced edges. *Pallida Dalmatica* is a large, luxuriantly growing kind, whose extra sized flowers at a little distance give the effect of a clear, delicate blue. Her Majesty, with flowers almost as large but borne on shorter stems, is soft pink with crimson markings.

We have to be especially careful in placing our irises unless we are willing to cut them off before their time, because the oriental poppies never wait for the iris season to be quite over. These with their brilliant black and scarlet coloring and great size are likely to prove rather upsetting to one's preconceived ideas of balance and harmony, unless they are carefully curbed. A good showing can be had from Rose Queen, Perry's White, Nancy, Goliath, Royal Scarlet, Beauty of Livermore.

By the first of June—in many localities, somewhat earlier—the peony plants will have altogether lost the mahogany color of their earliest stage and will have developed into picturesque mounds of deep, glossy green. Twelve standard sorts of moderate price, which give great variety in type and color of bloom and will furnish the longest possible season—from three to four weeks—are Umbellata Rosea, Rubens, Festiva Maxima, Mons. Jules Élie, Courrone d'Or, Faust, Delicatissima, Marie Jacquin, Felix Crousse, Mons. Hyppolyte Dellille, Henri Murger, Marie Lemoine.

By the third week of June, when the later peonies are in flower, the delphiniums will be reaching a considerable height, and the long, graceful spires of buds will begin to

While the late peonies show the last of their glory, the delphiniums raise their heads ready to bloom

show color. These with the Madonna lilies and the early white phloxes always follow hard on the peonies. The delphinium, or perennial larkspur, ranges in color from white through countless enchanting combinations of blue and lavender to deep blue and purple. The scarlet and so-called yellow sorts need not be considered here. For a variety of dependable blues, plant—Bleu Tendre, Rev. E. Lascelles, Hermosa, The Alake, Porcelaine Sceptre, Dusky Monarch, Mr. K. T. Caron, Progression, Perfection, King of Delphiniums, Lorenzo de Medici, Mrs. Brunton, Andrew Carnegie, Francis F. Fox, Corry, Moerheimi.

As the larkspur and lily time passes, the gorgeous phlox era comes—the former perhaps the most ethereal, the latter certainly the most brilliant phase of the garden year. Visualize these in bloom—Miss Lingard, Tapis Blanc, Frau Anton Buchner, Comte von Hochberg, Europa, Fernand Cortez, Inspector Elpel, G. A. Strohlein.

The beautiful, big, creamy white flowered dwarf, Tapis Blanc, is without a rival for the very front of the border. It grows from 1' to 1½' tall and bears large heads of large flowers. It blooms earlier than the other phloxes in this later group, usually beginning to flower just as the early white, Miss Lingard, is by its best. Tapis Blanc forms a bridge between the two seasons. Frau Anton Buchner, universally acknowledged the very best white phlox, bears equally large flowers in larger but somewhat looser heads, and grows very tall, often over 3'. This white is used for its own sake and to separate the more brilliant sorts. These brilliant colors are most effective used in considerable quantities, each by itself. Of the colored varieties, one might start with six plants each of the fol-

Cortez-a rich crimson, early; G. A. Stroh-

lein—a wonderful salmon with a red eye; Europa—white with a clear red eye; Comte Von Hochberg—a deep crimson, one of the darkest colored sorts; Inspector Elpel—a rosy pink with a reddish eye, very late.

The phloxes, with their wealth of color and bloom, carry us well into September, when the various fall asters begin to flower.

The number of these Michaelmas daisies is a revelation to most people, who still suppose the lavenders of our own New England asters the only colors to be found among them. There are, however, not only these lavenders and many more, but pinks in almost pure tones, white, light and deep blue, crimson, and purple. Many of the newer varieties grow to be larger plants and bear larger flowers than those most of us know. For a good autumn showing, try St. Egwin, Beauté parfaite, Glory of Colwall, Ryecroft Purple, Ryecroft Pink, Fairfield, Mrs. S. T. Wright, Wm. Marshall, Bertha Cubitt, Mrs. Rayner, Hilda Morris, Feltham Blue.

In building a new border, start out with these rules firmly in mind:

1. Select a location, if possible, in full view from the summer living room.

2. Carefully measure the space to be planted, and make, to a convenient scale, a detailed plan showing the location of every plant to be set. This not only makes the actual planting much easier, but makes it possible to get along without the unsightly and perishable labels, for if in doubt as to a name one merely has to consult the plan.

3. In arranging the colors try to get beautiful combinations, remembering always that simplicity is a chief aid to that end. A half-dozen plants each of three or four colors are far better than the same number of plants, each in a different color.

4. Whenever practicable, obtain the best quality of plants, in named varieties.

5. Give a reasonable amount of labor and fertilizer in preparing the ground.



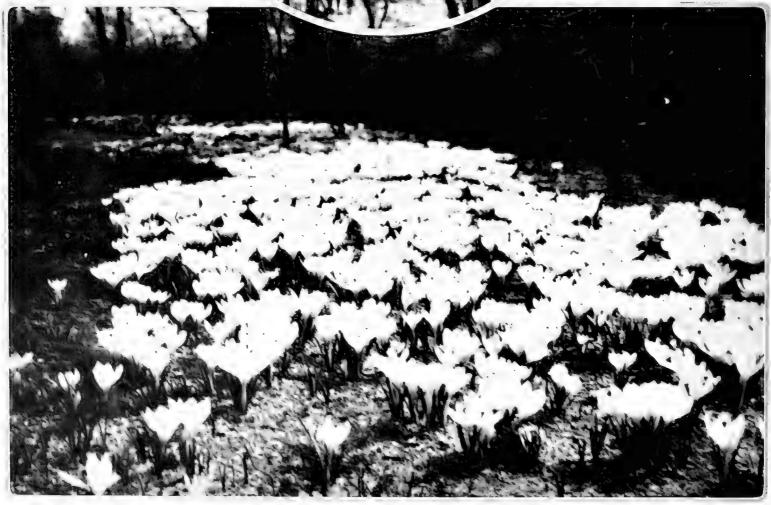
#### AMONG THE FIRST TO BLOOM

The Crocus, An Early Venturer Into the Garden

MARIAN C. COFFIN Landscape Architect

In some parts of this crocus border the bulbs are planted thick, line upon line, with the cups so near together that they are no longer seen as individual flowers, but as long-drawn splashes of cobor. At these spots the tree trunks act as foils and the little patches of brown earth that do manage to show between the wide-spread chalice blooms serve to deepen the coloring of the crocuses themselves

Is the first important flowers of the early spring we love the crocuses, even when only a few spring up in the grass or along the border. But how much more wonderful are they when there are hundreds upon hundreds of them! Some times they come up singly or in thinly scattered groups, perhaps only six, perhaps a dozen cups to gether with the sturdy, dark trunks of leafless trees rising about them



#### FOUR OF THE ROSE FAMILIES

From the Hybrid Perpetuals, Teas, Hybrid Teas and Polyantha Types The Rose Lover Makes a Selection for All-Season Bloom

THERE are three principal groups with which the rose grower should familiarize himself—the Hybrid Perpetuals, made up of roses of mixed parentage but practically all of the hardy or perpetual type; the Tea rose, tea scented, which is not hardy except in the South or in California; and the Hybrid Teas, standing between these two rose extremes, being the offspring of the hardy Hybrid Perpetuals and the Teas, and having been developed toward hardiness as far as possible. Of course there are many other kinds and the fact that there are over four thousand species of the genus in Europe and Western Asia alone, will only confuse the amateur. Choice, then, should be made for season of bloom and varying quality and texture of flower.

The first roses to bloom are those of the Hybrid Perpetual class—the June roses—which begin usually about the 5th of June and continue on for a month. The Teas and Hybrid Teas begin later—about the 15th—and carry their first flower production until the last week in July. Then they rest a bit, save for a few fugitive blooms, until about the end of August, when they start in once more and blossom until frost. The interval between the end of July and the end of August is filled in with two other classes, the Bengal and the Polyantha. The latter are clustered masses of small flowers usually and the bushes are not large.

The number of plants of each class which a rose garden should have must, of course, be determined by the size of the garden, but a fair proportion is two Hybrid Teas, one Bengal, one Polyantha and one Tea to each Hybrid Perpetual, or five Hybrid Teas to one Hybrid Per-

Of the Hybrid Perpetuals, Baron de Bonstetton, General Jacqueminot and Prince Camille de Rohan are among the deep and velvety reds. Paul Neyron, in addition to being the largest rose in the world, is free flowering, of a fine, deep rose color. Darker than this is Marshall P. Wilder. Two good whites are Frau Karl Druschki and Margaret Dickson. Yvonne Rabier, the baby white rambler.

Another white is Marchioness of Londonderry. Mrs. John Laing is an abundant soft pink.

Among the Hybrid Teas, an excellent red rose is General McArthur. Betty is good for late summer, a rare shade of coppery gold overlaid with yellow. Another wonderful yellow rose is the Duchess of Wellington. Redder than flame is Gruss an Teplitz. For pale shell pink nothing has yet excelled La France.

In the Tea Rose class, Harry Kirk should lead for the yellows, seconded by Marie Van Houtte, a paler shade edged with pink. For later summer and fall bloom William R. Smith is good, although tender and requiring care.

Of the Bengal roses, Hermosa is a popular choice and can be massed in beds. Countess de Cayla is another of this class, a coppery tone shaded with orange. The blushing little Clotilde Soupert is a tractable, densely petalled hybrid Polyantha, generally classed as white. Then there are Louise Walter, soft rose pink; Orleans, with flowers red as geraniums, and



Roses should be given a place by themselves, and, where space permits, a special bed to each family. On the estate of Charles Harding at Dedham, Mass., the queen of flowers has a regal and abundant spot—a formal garden walled in by high architectural lattice with seats and gates at the terminals of the paths. Guy Lowell, architect

#### FIFTY GOOD CLIMBING ROSES

THE notes which follow are compiled from exhaustive tests covering a period of four years. In considering the results it is well to remember that they were obtained in the latitude of New York City and would not necessarily apply in all details in other sections and under different conditions. Those roses which are marked "winter kills" were killed back to root by the unusually severe winter of 1017-18, a season considerably colder than the average in this region. The varieties noted as being hardy survived that winter and consequently may be considered highly cold-resistant. The time of blooming varies approximately six days for every fifty miles' difference in latitude. Varieties prefixed by the figure 1 are considered especially good; those marked 2 are the next choices. A wise selection of a dozen or so will result in successive blooms for nearly two months.



June 7-14

June 14-24

June 1- 7 1-Miss Helyett-(wich.) Winter kills. Fauque, 1908. Large double, blush with carmine shading. Strong, good foliage.

Long season. Good stems.

May Queen—(wich.) Hardy. Conard & Jones, 1899. Delicate pink. Foliage good, weak grower. Fascinating color,

with crimped petals.

Neige d'Avril—(mult.) Hardy. Small pure white flowers, profuse, semi-double. Prominent yellow stamens. Foliage fair.

Ghislaine de Feligonde-(mult.) Hardy. Turbot, 1916. Practically thornless. Bud orange. Flower cream when open,

Ghislaine de Feligonde—(mult.) Hardy. Turbot, 1916. Practically thornless. Bud orange. Flower cream when open, foliage fair. Medium growth, very long season. Purple East—(mult.) Hardy. Paul, 1901. Rosy pink with over color of mauve. Wonderful color in early morning Semi-double, large, free. Foliage only fair.

2—Francois Guillot (wich.) Winter kills. Barbier, 1907. Double white. Free, vigorous. Foliage very good. Shaded yellow in bud. Long blooming season.

Paul's Scarlet Climber—(wich.) Hardy. Paul, 1916. Large, vivid scarlet shaded crimson. Fine large foliage. Vigorous, unusually fine color that holds well.

Silver Moon—(mult.) Winter kills. Henderson, 1910. Very large semi-double, almost 5". Pure white, yellow stamens. Buds tinged yellow, foliage unusually good. Strong, but some years fails to bloom.

1—Christine Wright—(H. P.) Hardy. Hoopes & Thomas, 1913. Rose pink tinged yellow. Good form, fragrant. Good texture. Color lasts, long period of bloom.

Zephirin Drouhin—(Hybrid Bourbon.) Hardy. Bizot, 1868. Large single flower, wonderful silvery rose color. Petals wavy. Long season, strong bushy growth.

2—Baroness von Ittersum—(Multiflora.) Hardy. Leenders, 1910. Bright red foliage. Fairly free bloomer. Some flowers are lighter. Quite large.

August Roussel—(Macrophylla.) Hardy. Barbier, 1913. Large flowers, semi-double. Rosy salmon. Good foliage. Shaped like H.T.; like a clear pink form of Dr. Van Fleet. Climbing Lady Ashtown—(H.T.) Hardy. Bradley, 1909. Free for H.T. Vigorous. Best climbing H.T. Has long spring season and a few autumn flowers.

Alberic Barbier—(wich.) Winter kills. Barbier, 1900. Buds yellow, flowers cream, foliage good. Young shoots bronze. Good color until it fades.

1—Paul Noel—(wich.) Hardy. Hanne, 1913. Large double, 2"-3". Bud carmine; open, deep salmon, splashed orange. Wonderful color and foliage. Long season. rose, free, strong, good foliage. Similar in form and habit to Dorothy Perkins but a shade lighter.

Gerbe Rose—(wich.) Hardy. Large double. Clear pink,

strong, good foliage.

strong, good foliage.

1—Gardenia—(wich.) Hardy. Manda, 1899. Bud yellow, flower cream. Good foliage, vigorous, free.

2—Renee Danielle—(wich.) Hardy. Guillot, 1913. Deep yellow in bud, pale yellow open. Very large and double. Small, isolated clusters, very fine foliage.

Mmc. August Nonin—(wich.) Hardy. Nonin, 1912. Double, mauve-rose. Vigorous, good foliage, lasts well.

2—Electra—(multiflora.) Winter kills. Veitch, 1900. Deep salmon pink heavily shaded. Foliage good. Color fades but veins become more pronounced.

but veins become more pronounced.

2—Ida Klemm—(mult.) Half winter kills. Walter, 1907. Large double, cream. Fragrant. Good form, fine foliage, long

blooming season.

2—Tausendschön—(mult.) Hardy. Schmidt, 1907. Semi-double, bright pink to pure white. Color deepens in dull weather and with age. Foliage fair.

Blooms

Blush Rambler—(mult.) Hardy. B. R. Cant, 1903. Clear June 24-30 rose, free, good growth. Good, fast color, center turns

paler when old.

paler when old.

Winter kills. G. Paul, 1911.

paler when old.

2—Klondyke—(wich.) Winter kills. G. Paul, 1911. Yellow bud, flowers paler. Vigorous, free, foliage good.

1—Source d'Or—(wich). Hardy. Turbot, 1912. Buds bright yellow; open, pale yellow, large. Very faintly tinged blush. Vigorous, foliage very good.

Sanders' White—(wich.) Hardy. Sanders, 1912. Double, pure white, very free. Long season, glossy foliage, vigorous.

vigorous.

2—Dr. F. W. Van Fleet—(wich.) Half winter kills. Henderson, 1908. Flesh pink. Good form, foliage very good. Vigorous, fragrant.

1-American Pillar-(mult.) Half winter kills. Conard & Jones, 1909. Rose pink, light centers, good foliage and growth.

Flowers freely and regularly.

1—Marie Lovett—(wich.) Half winter kills. Large, double, pure white; fine shape, vigorous. Foliage very good. Fragrant, large, waxy petals prettily curled. Beautiful bud of H.T.

harge, waxy petals prettily curied. Beautiful bud of H.I. shape.

Debutante—(wich.) Hardy. Walsh, 1901. Soft light pink.

Variable. Vigorous, foliage good. Very large clusters.

Adelaide Moulle—(wich.) Hardy. Barbier, 1902. Coppery salmon, double. Foliage good, strong. Small but pretty flowers in clusters. Fades in bright weather.

2—Evergreen Gem—(wich.) Hardy. Manda, 1899. Cream, free, fragrant. Vigorous, foliage very good. Faint blush center when open.

center when open.

1—Hiawatha—(wich.)

-Hiawatha—(wich.) Hardy. Walsh, 1904. Single. Rich scarlet, vigorous, free. Foliage good.
Sicile—(mult.) Hardy.
Coronation—(wich.) Hardy. Turner, 1912. Vivid crimson-scarlet, lighter stripes. Very free. Large strusses. Strong, foliage good.

Francois Juranville—(wich.) Winter kills. Barbier, 1906. Salmon, large, double. Foliage good.

Jean Girin—(wich.) Hardy. Girin, 1910. Salmon, double, free, vigorous, foliage good.

Sodenia—(wich.) Hardy. Weigand, 1911. Very bright scarlet, with lighter edges. Free, strong, good foliage.

Ernst Grandpierre—(wich.) Hardy. Weigand, 1900. Double white, small. Free, vigorous, good foliage. Cleaner white than White Dorothy.

1—Dorothy Dennison—(wich.) Hardy. Dickson, 1907. Creamy pink. Vigorous, good foliage. Very double. Fast color, deeper in dull weather. Habit like D. Perkins. Synon, Lady Godiya

Lady Godiva.

2—Excelsa—(wich.) Hardy. Walsh, 1909. Crimson. Vigorous, free, good foliage. Brighter than crimson rambler and has decidedly better foliage.

2—Evangeline—(wich.) Hardy. Walsh, 1907. Single, blush, pretty shape. Free, vigorous, flowers large, color variable.

pretty snape. Free, vigorous, howers large, color variable.

1—Dorothy Perkins—(wich.) Hardy. Perkins, 1901. Rose pink. Double, vigorous, free. Foliage good.

White Dorothy—(wich.) Hardy. Paul Cant, 1908. The white counterpart of Dorothy Perkins.

1—Snowdrift—(wich.) Hardy. 1910. Pure white double flowers, large clusters. Very free, vigorous growth. Good foliage.

1—Gruss an Freundorf—(wich.) Hardy. Praskac, 1913. Deep crimson, light center. Semi-double, vigorous, exception-July 7-14

crimson, light center. Semi-double, vigorous, exceptionally fine color.

Leontine Gervais—(wich.) Winter kills. Barbier, 1903.

Nasturtium red, free, good growth, foliage and color.

2—Mrs. M. H. Walsh—(wich.) Hardy. Walsh, 1912. Pure white, small, free, vigorous. Foliage good, flowers very evenly distributed. Grows very tall.

Tuly 1-7

#### A DOZEN GOOD ANNUALS

Certain Flowers Whose Colors and Characteristics Qualify Them as a Basis for Starting an Annual Garden

THERE are, of course, no twelve—or fifteen, or twenty—"best" annuals. Local conditions, individual preferences, a thousand and one varying circumstances, must be taken into consideration. If we are going to set any definite limit to our list, let us call our selection merely "good" in a general sort of way, and let it go at that.

The flowers which follow are chosen with the assumption that they are to be grown under average normal conditions. Briefly, these consist of moderately rich, well-drained soil; plenty of sunlight and fresh air circulation; and freedom from the encroaching roots of trees and shrubs. Granted these, here is a basic list on which you can start an annual garden of small size.

Cosmos. Its colors are red, pink and white—great saucer-shaped blossoms borne 4' to 6' high above a mass of feathery foliage. For mass effects far into the autumn, after most of the other flowers have succumbed to the chill nights, it is unexcelled. An excellent flower for both garden effects and cutting.

Asters. Not the busy, perennial kinds with the purple and gold flowers, but the Giant Comet, King, Royal and Imperial sorts. They reach a height of 1' to 3', and furnish abundant bloom in a wide variety of colors during late summer and autumn. These asters are good not only for a variety of garden effects, but

also for cutting and display in the house.

Alyssum. Free-flowering and quick-growing, a splendid bedding and edging plant which begins to bloom early in the spring and continues throughout the season. The flowers are white, profuse, and low growing; together with the foliage, they form a thick mat a few inches thick.

Snapdragons. Good for border planting and as cut flowers. Long blooming season and exquisite flowers in practically every color except blue. They grow from 1' to 3' high and if given winter protection will bloom a second season. Some of the giant types are especially good for planting at the back of the bed.

Candytuft. One can hardly imagine this charming hardy flower. For edgings and bedding effects it is especially good, and it is well adapted to cutting. The blossoms are white, pink or red, borne 1' to 2' high in large heads or spikes.

Forget-Me-Not. Of all garden flowers, this comes as close as any to being a tradition. There is no need of describing it here—it's too well known.

Annual Larkspur. Not to be confused with the perennial sort. It comes in all colors except yellow, and is good for garden masses as well as cutting. Grows 2' to 3' high and closely resembles the hardy larkspur in appearance. It is a splendid flower in all respects.

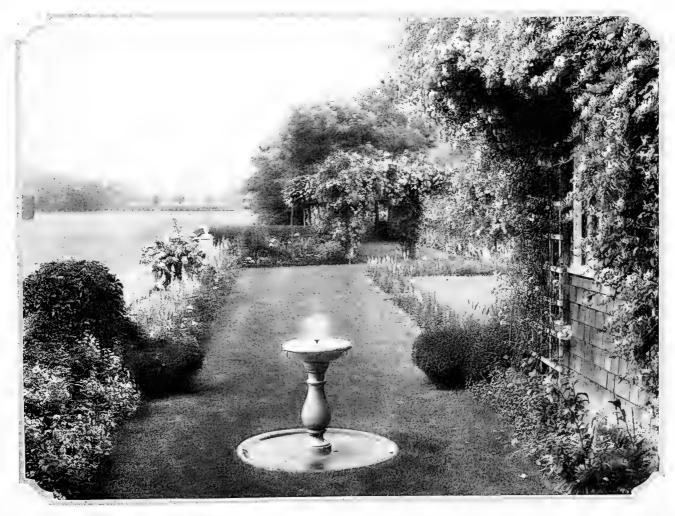
Petunias. Brilliancy and wealth of blossoms, as well as marked success even under unfavorable conditions, characterize petunias. They come in all colors except yellow, grow from 1' to  $1\frac{1}{2}$ ' high, and are good for color masses and bedding effects.

Salpiglossis. Also called Velvet Flower and Painted Tongue. All colors, I' to 2' high, desirable especially for garden effects and cutting for the house.

Phlox. An old favorite, better today than ever. All colors except blue, can be used as a cut flower as well as for color masses in the garden. Grows about 1' high. Not to be confused with the hardy perennial varieties.

Eschscholtzia or California Poppy. These flowers, like forget-me-nots, scarcely need description. They are so showy and free-flowering that they are particularly adapted to color masses in the house as well as outdoors. 1' to 2' high, in all colors except blue.

Sweet Peas. The sweet pea of today is a far superior flower to that of a dozen or more years ago. All the old colors are in it, and many new ones. The Spencer type is the best; many of its varieties have beautifully frilled and fluted edges on their petals. To yield the maximum returns, sweet peas should be grown in a very richly manured trench prepared to a depth of 2', as their roots demand a great deal of nourishment.



Annuals may be planted in beds by themselves, a bed or portion of a bed to one variety, or they may be used in the perennial border to give color and flower interest when the herbaceous plants are not so rich in bloom

#### PEONIES FOR BEGINNER AND COLLECTOR

Selections That Will Make An Ample Foundation For A Brilliant Display Each Spring

THE garden without peonies is a contradiction in terms; it simply isn't, can't be a garden. For the miracle of the peonies is a yearly refreshment of soul and a delight to the eye that knows no equal.

The last iris are cut. The late pink and yellow cottage tulips are gone. The border becomes a mass of billowy green—the glistening, metallic green of the peony leaves, the gay green of iris blades, the soft fuzzy greens of fox-gloves and larkspurs, the dainty green of the growing phloxes, the stiff, cold, forbidding lily stalks. Then the miracle slowly but surely takes place—the peonies begin to bloom!

It can't be described. One's vocabulary simply won't set down that picture. All one can say to the gardener who has no peonies, "Go without that pair of new shoes, argue your wife out of that new hat, but plant peonies this fall!" Enough for a start —say twelve—will cost you less than a pair of shoes at current prices, and

for the price of a lady's hat you can amaze the town.

maxima and

at the right M. Jules

Elie

Peonies are among the easiest plants in the garden to care for and no conjurer's art is required to make them grow. Begin with twelve this fall and order new types every year. Meanwhile, lest this text becomes an incoherent rhapsody, let us make some peony lists. These may not be perfect selections, but they are sufficient for a beginning. Or the gardener may easily procure the catalog of a specialist and choose his own varieties from those described therein.

An inexpensive list would consist of the following:

Boule de Neigemilk-white guards, center flecked with crimson, early midseason; Couronne d'Or-pure white, yellow stamens, tipped carmine, late; Duc de Wellington-white guards, sulphur center, fragrant, late; Duchess d'Orleans deep pink, salmon center, fragrant, mid--eason; La Coquette -light pink, rose white collar, fragrant, mid-season: Louis Van Houtte-deep carmine rose, fragrant, late; Mme. Calot -pale hydrangea pink, fragrant, early: Delicatissima — pale lilac rose, mid-season; Emile Lemoine-red with silver tip, fragrant, late; Dr. Bretouneau-pale lilac rose, center tipped cream-white, fra-



Agnes Mary Kelway has borne as many as 150 blooms a season grant, early mid-season; Comte de Paris—guards and collar violet rose, white-crimson crown, fragrant, mid-season; Princess Beatrice—guards and crown light violet rose, collar white, fragrant, mid-season.

Should the gardener desire a collection of the rarer varieties he might select the following. It represents a good selection of French and English types, with one American—Excelsior:

James Kelway—rose-white changing to milk-white, early mid-season; Excelsior-violet-purple, fragrant, early; Mireille-milk-white, center petals edged dark crimson, fragrant, very late; Livingstone-pale lilac-rose with silver tips, central petals flecked carmine; Simoune Chevalier-pale lilac-rose, collar cream-white, early; La Tendresse-milk-white guards, center flecked with crimson, early; Marguerite Gerard-very pale hydrangea-pink, fading to white, late; Princess Maud-lilac-white guards, center amber-white, late; Albert Crousse-rose-white, flecked crimson,

fragrant, late; Souvenir de l'Exposition, d'Bordeaux—bluish violet-red, mid-season; Mme. Emile Lemoine—milk-white, mid-season; Festiva Maxima—white with center marked crimson.

The Japanese and single types are often preferred by peony lovers because they have a very distinct beauty of their own. In developing the peony layout of a garden it is always advisable to try a few singles at least. They play the same rôle in relation to the ordinary peony types that single roses do to the

Hybrid Teas and Hybrid Perpetual roses; they are the Polyanthas of the peony family.

The following selection comes from English and Japanese sources:

Jupiter-rosy magenta, medium tall, early; Geraldinedeep carmine-violet, mid-season; Lemon Queen-pure white with cushion of pale yellow petals; George Alexander—deep maroon; The Moorpurple-garnet, early: G y p s y—dark rose. mid-season; Cathedral -blush, center petals creamy; Albiflora, The Bride-pure white, a tall and free grower; Apple Blossomblush-yellow in center petals; Crystal Queen -pure white; Austin Chamberlain — deep amaranth-red, early; Dragon's Headpetals pale rose striped dark crimson.



The peony bed in blossom is a place of striking beauty. Here is Couronne d'Or, pure white with a ring of yellow stamens around a central tuft of petals tipped with carmine

#### PLANTED FALL BULBS to BLOOM NEXT YEAR

Long Lived and Dependable, the Hardy Bulbs Need Little or No Care, But Continue Sending Up Their Showy Blossoms Season After Season

In proportion to the effort expended, no other flowers are so effective as bulbs. They need only to be tucked in the ground in the autumn and given a slight protection of litter to repay one the following spring by a prodigality of blossoms. As the bulbs contain their own plant food they will blossom, for the first season at least, on very poor soil. They may be had in every color, and for practically every season, and are equally desirable for both outdoor and indoor decoration. One who desires a gorgeous display of color may plant thousands of the inexpensive species, or the collector may have his cultured taste gratified at greater cost.

When placed in direct competition with the showy tulips and daffodils, some of the more unusual bulbs are eclipsed. For these there may be reserved a sunny corner, possibly by the entrance where they will attract greater notice, and create an intimacy which would be denied them in the plan of a larger garden. They will also thrive better if the tops are allowed to die undisturbed instead of being removed to make way for annuals, as is necessary in conspicuous places.

Another distinct use for bulbs is in formal bedding. The day has gone by when our ideal of beauty was a fancifully shaped bed carved in the middle of the lawn and filled with a red and yellow mixture. However, a well-designed parterre has its appropriate place, preferably the terrace next the house, or perhaps the entire space at the rear of a small city lot.

A very different kind of bulb planting is that of naturalizing in colonies or drifts. Since their beauty consists in the massing of large quantities together, usually any mixture of kinds is to be avoided. In this case the bulbs are allowed to multiply undisturbed year after year. They succeed best

#### A BORDER OF MINIATURE BULBS

PLANTS

1. Forsythia intermedia. Golden bell, for yellow bloom at time of bulbs. 10 plants, 3' apart, 2'.3' high.

2. Evonymus radicans, climbing evergreen evonymus. 22 plants, 2' apart, 2 years.

3. Taxus canadensis, American yew, evergreen with red berries in July. Shade. 7 plants, 3' apart, 12" spread.

BULBS

4. Galantus minute.

BS Galantus nivalis, snowdrops, white, green spot, 4"-6", March-April. Sun or ½ shade. Crocus, mammoth golden yellow, 6"-8", mid-March-late April, sun or ½ shade. Scilla sibirica, Siberian squill, deep blue, 2"-6", mid-March-early May, sun or shade. Eranthus hyemalis, winter aconite, yellow, 3"-8", March-April, ½ shade. Muscari botryvides, var. Heavenly Blue, grape hyacinth, deep blue, 6"-8", April-May, sun or ½ shade. Fritillaria meleagris, pure white, checkered fritillary, 10"-12", late April-late May, sun or shade. Leucojum vernum, snowflake, bell-shaped white flowers, green tips, 6"-12", April-May, ½ shade. Narcissus bulbocodium, hoop petticoat, delicate yellow, 5"-8", late April-late May, ½ shade best, not very hardy. Allium, onionwort:

11.

5".8", laie April-late May, 12 shade best, not very hardy. Allium, onionwort:
a. Aureum, yellow, 1', mid-April-June.
b. Azureum, azure blue, 1'.2', June-July. Sun or shade. Puschkinia scilloides, striped squill, bluish white, 4"-12", April-May, sun.
Camassia esculenta, camass, purplish blue, 1'-2', May, sun

esculenta, camass, purplish blue, 1'-2', May, sun shade.

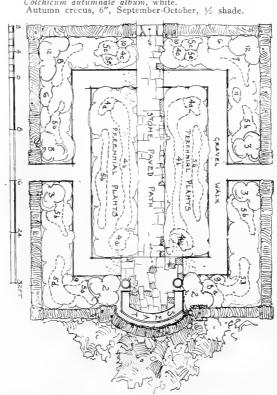
or ½ shade.

Monbretia erocosmæflora, monbretia, orange-scarlet, gladiolus-like flowers, ½, July-August.

Colchicum autumnale major, lavender.

Colchicum autumnale album, white.

Autumn crecus, 6", September-October, ½ shade. 15.



A TULIP GARDEN

A IULIY GARDEN

Pink, in harmonizing tones:
4. Clara Butt, pink, flushed salmon rose.
4. Edmée, vivid cherry rose, edged with soft old rose.
2. Madame Krelage, bright lilac-rose, edged paler rose.
1. Mattia, clear carmine rose, blue base.
3. Professor Rauwenhof, bright cherry red, scarlet glow inside, blue base.
2. Suzon, soft buff rose, blush margin.
3. Picotee, while margined deep rose.
2. Inglescombe Pink, rosy, salmon flush.

where the grass is not too thick and is not cut too soon after the bulbs have bloomed. The cultivated soil around the bases of shrubs, or the edges of woodland in partial shade, are good places for naturalizing.

The majority of bulbs are, so to speak, children of the spring, but the lilies nod and beck the whole summer through. Some of them are expensive and die after a year or two, but the following are worthy of general use:

Lilium elegans, deep orange red, sun or half shade, 2', June and July.

Lilium candidum, madonna lily, fragrant, pure white, sun, 3'-5', July.

Lilium Hansoni, yellow, sun or

shade, 3'-4', June and July.

Lilium tigrinum, tiger lily, orange purple-spotted, sun or half shade, mid-July to September, 2'-5'.

Lilium speciosum, spotted Japanese lily, white, reflexed petals spotted crimson-pink, fragrant, 2'-4', sun or shade,

August-September.

Unlike most lilies, the madonna does best in full sun. It is often used in combination with larkspur. One secret of success is to cover the bulb with but a scant 2" of soil. The intense color of elegans looks best with the white of syringas. The golden yellow of Hansoni is an addition to any picture. The tiger lily looks particularly well with the porcelain blue of platycodons or early monkshood. The speciosum lilies are attractive in the garden with gypsophila or pink phlox, but are particularly suited to rhododendron soil.

The actual planting of bulbs is not a matter to be gone into hit-or-miss. Few if any of them can stand wet soil before their roots develop, so if the location is one with heavy soil it is advisable to bed each bulb in sand, making the planting hole somewhat deeper than is actually needed for the bulb itself and using the sand to fill up this difference.

White:
2. La Candeur, pure white, tinged pale rose when opening.
3. Painted Lady, cream white, tinged heliotrope when opening.

Tavender:

Lavender:
2. Dream, pale heliotrope with darker

2. Dream, pale henotrope was stripe.

1. Erguste, violet, flushed silvery white.

2. Reverend Ewbank, lavender violet silvery gray flush, white base.

E. Dark tones:

1. The Sultan, maroon-black, blue base.

3. King Harold, ox-blood red, purple-black base.

2. Zulu, velvety purple-black.

3. King Harold, ox-blood red, purple-black black base.
2. Zulu, velvety purple-black.
6. Rembrandt tulips:
3. Mixed varieties, striped and feathered in shades of violet, rose, maroon, and white.
7. Bybloem tulips:
3 & 4. Striped and feathered rose and violet on white ground.
8. Bizarre tulips:
3 & 4. Striped and feathered dark brown and red on yellow ground.
9. Breeder tulips, dark rich colors, dull toned or bronze-shaded, some sweet-scented:
4. Cardinal Manning, dark rosy violet, flushed rose-brown.
3. Chestnut, real chestnut brown.
10. Parrot tulips:
3. Mixed varieties. laciniated edges, feathered and striped yellow, crimson, brown.
11. Double tulips:
3. Murille, light pink.
2. Tea Rose, saffron yellow.
\*Numbers before each name refer to the relative time of bloom. All appear in April and May.

NTS
Tsuga canadensis, American hemlock.
Hedge, 85 plants, 2' apart, 1½' high.
Specimens outside garden, 5 plants 4'-4'
Spiraea Van Houttei, 2 plants, 3'-3½'
Van Houtte's spiraea, white.
Deutzia Lemoinei, 4 plants, 2'-3'
Lemoine's deutzia, white for contrast. high,

BULBS

BS Early tulips:
A. Yellow:
\*3. Primrose Queen, primrose edged

Primrose Queen, primrose edged canary.
 Chrysolora, clear golden yellow.
 Pink, in harmonizing tones:
 Pink Beauty, vivid cherry rose, center of petal striped white, yellow base.
 Rose Luisante, brilliant deep rose pink.
 Queen of the Netherlands, soft pale rose flushed white, yellow base.
 Queen of Pinks, deep pink, white flush on outer petals.
 Rose Gris-de-lin, carmine rose shaded fawn, margin creamy white.
 Prosperine, rosy carmine, white base marked slate blue, striking.

marked slate blue, striking.

C. White:

2. White Hawk, pure white, large globular flower.

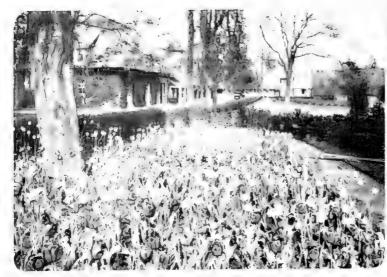
4. White Swan, pure white, oval flower.

May-flowering (Cottage and Darwin) tulips:

A. Yellow:

2. Bouton d'Or, deep chrome yellow, black anthers, cup-shaped flower.

1. Moonlight, luminous canary yellow, long oval flower.





A good example of tulip border planting. The plants are not too closely set, nor are they aggressively prominent in the general scheme of the surroundings

In very heavy soil the sand layer may be 3" deep, and it should extend up around the sides of the bulbs as well as beneath them. The roots will reach out through this protecting layer and reach the nourishing soil without as soon as the time for active growth arrives.

Although it is true that bulbs will grow in almost any soil, it is also a fact that they

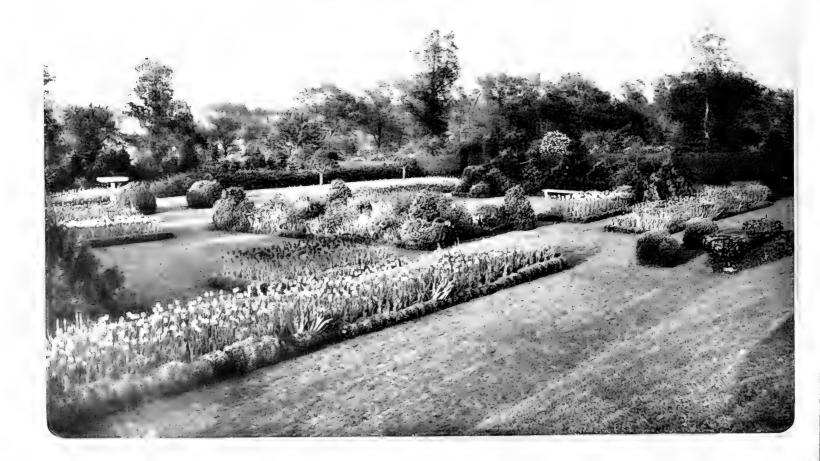
(Right) An excellent example of bulbs used in a percential border for early effect. Notice how their blossoms add character to the arrangement of the c\*her plants



In certain settings, bulbs are invaluable as contrasts to the rest of the planting. Here Ouida and Rev. Ewbank tulips have been used in connection with evergreens

will do better if the earth around them is properly enriched. One of the best fertilizers is well rotted manure, thoroughly dug into and incorporated with the soil. Bone meal also is excellent. Put a handful of it on the surface above each bulb, and let the rains carry it down gradually. The use of both bone meal and manure is seldom necessary, or even advisable.

Another case of justifiable formal bedding, bearing about the same relation to front-lawn bulb stars that Georgian architecture does to houses of the jigsaw period



#### IRIS FOR ALL PLACES

From a Bewildering Array of the Bearded, Beardless and Japanese Types Almost Any Selection Works The Miracle of Beauty

GROWING nothing but iris is one of the great garden temptations that flower-lovers have to resist. So hardy is this group, so prolific in bloom, so grateful for a little attention that one is apt to overload on iris. And yet, one can never have too much of them. Perhaps the only way to resist this temptation is to give in to it!

Save for a few types, the iris appreciates a fairly dry, sunny spot. Its rhyzomes, lying close to the surface or partly through it, appreciate the sun on their backs. As the iris multiplies rapidly it should be divided every third year, preferably in the autumn. Do not crowd it too closely in the border, and if you would have it do its best, see that it receives abundant sunlight. These simple requests seem about all the iris has to make. The gardener has merely to select colors and types to suit her own particular preferences.

The range from which she can choose is almost as bewildering as the variety of peonies. Pick up the nearest catalog to hand. Of new types—82. The Germanica number 187, with 35 varied species and intermediates. There are 27 of the dwarf bearded and 24 of the beardless type, with 46 Japanese iris. Over 400 distinct kinds in one catalog, each with an individual beauty. How then is the beginning

gardener to make her selection wisely, with an eye to sufficient variety?

First locate the place or spaces that can be given to iris. Then visualize the colors that are desired. After that, except one be specializing in iris, there is nothing to do but wade in blindly and choose according to color, height and general family grouping.

The first great family is the Germanica, under which are classed many subdivisions. They bloom in May, range in color from rich yellows, soft blues, purples, clarets and bronzes to pure white, with every possible combination of these colors. Many are fragrant, and all have prominent beards. They range in size, but for general purposes the tall bearded sorts give the widest range for choice. The dwarf learded or Pumila species are best used in the front of taller plantings. They flower from the end of March to the end of May, when the taller varieties take up the iris story and carry it into the summer.

The second great family is the beardless. Under this group are classed the moisture-loving types, two of which, the water flag and European yellow flag, can be grown partially in water. This class appreciates a soil kept moist by constant cultivation and containing abundant richness.

Finally there is the Japanese or Iris Kaempferi, a type that deserves even more attention than it is getting today. Their flowers are often 10" across and borne on stalks 3' high. They also should be fall planted, given a mellow soil, plenty of moisture during the flowering period and a dry dust mulch to prevent too rapid evaporation. They are at their best in a sunny situation, and should not be frequently disturbed.

For a general collection of the Germanica types, one that gives a good variety of colors, the beginner couldn't go wrong on: Wyomissing, a creamy white suffused with soft rose; Fro, a deep gold; Lohengrin, pink; Princess Victoria Louise, primrose yellow and reddish purple; Mithras, a light yellow and wine red; Her Majesty, rose pink and bright crimson: Pfanenauge, olive gold and bluish plum; Rhein Nixe, white and violet blue; Spectabilis, purple; Bridesmaid, lavender and white; and Dr. Bernice, coppery bronze and velvet crimson.

In the Japanese iris class space permits the selection of only six, but these are well worth trying: Crane's Feathers, white; Mandarin, lavender and white; Rosy Dawn, purplish rose; Starry Heavens, dark blue with yellow blotches; Geisha, soft purplish rose finely veined; White Waterfall, double white.



Iris can either stand alone or be given a shrubbery background. They appreciate a warm spot, fairly dry, except the Japanese types which prefer moisture, and the water flag and European yellow flag, which can be planted in water

#### DAHLIAS-PERENNIAL and PERMANENTLY POPULAR

A Short Course in Culture; Including Preparation of the Soil, Planting, Care of the Plants Through the Growing Season, Storing for Winter, etc.

YEAR after year the dahlia plods along, adding new friends and holding the old. New and better introductions each season keep interest at a high pitch among dahlia devotees and create inspiration for more recent admirers

One thing that makes the dahlia so popular with the masses is its absolute dependability. A mechanical expert once said about the engine of a popular automobile, "You can over-heat it, boil it over, flood it with oil or neglect to oil it, and it will still

run." Paraphrased, the same is true of dahlias. You are always certain of returns, no matter how neglectful or abusive you may be in your treatment of the plants. Of course, the results are always commensurate with the treatment accorded, but this one trait of vielding dividends in spite of all obstacles or neglect is this flower's greatest asset for most of us.

We may thank Mexico for the dahlia. The flowers when first introduced were all single, but after a few years under cultivation in European gardens a double variety unexpectedly appeared.





The soil should be

firmed do w n

about the

roots and

filled in as the plant grows

Since that time various types have been introduced, and there are now forms to suit the most critical, ranging from the little pompoms or buttons to the large, loose, peony flowered types and the cactus sorts.

There are three distinct methods of starting dahlias: from roots, cutting; and seeds. The first is the most common method employed because it is by far the easiest; cuttings are used extensively in increasing the stock of new and desirable varieties, and are the best for commercial purposes;

seeds are used in the fascinating work of developing new varieties. This last is extremely interesting work. The flowers can be cross-fertilized by artificial means, though the great majority of dahlia growers allow the bees to perform this task for them. In this case, flowers that are to be crossed are planted in close proximity to each other. The results, of course, are problematical, as we do not actually know which or how many kinds of pollen have been deposited by the bees. But one may be sure of interesting developments.

Put the supporting stakes in position when the shoots have grown to be about 1' high



Cross-fertilizing, with its resultant development of new varieties, is extremely interesting work





Divide the roots in the spring rather than in the fall— for best results



Small quantities of dahlia roots can be stored in a barrel for the winter, with dry sand or sawdust

#### PLANTINGS FOR THE

#### HOUSE FOUNDATION

FOUNDATION planting is essential to the completed appearance of a house and should be put in as soon as the building is finished. A new home without an effective planting is almost as incomplete as the interior without the draperies or the pictures on the walls. Neither is absolutely necessary for physical comfort, but both are needed for complete mental enjoyment.

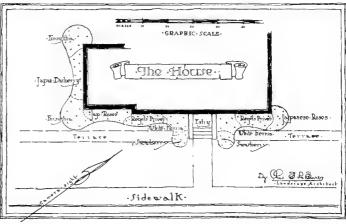
The principles underlying this or any other type of good landscape planting are not complicated. In the first place, simplicity is of paramount importance. The reason so many places are spoiled is attributable to a desire to have every kind of plant advertised, which naturally results in a botanical collection

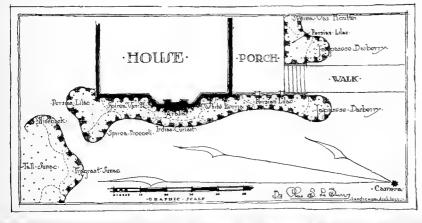
rather than a landscape garden.

There must be variety and harmony in the shrub planting. Varieties should be selected which blend easily together to form the general mass effect. The form of the planting, or the contour of the shrubs, must be carefully considered. Variety in this respect is secured by setting taller growing kinds at the corners of the house and flanking the entrances. The other spaces may then be filled in with somewhat lower growing sorts, and the taller or accent shrubs faced with lower plants like Japanese barberry, dwarf spireas and deutzias.



The great aim of foundation planting is to tie the house to its site. Here only six kinds of shrubs have been used to obtain the desired effect. White kerria and snowberry flank the simple Colonial entrance





Straight, hedge-like effects should be avoided in foundation planting. The plan at the left, and the photograph of its actual planting below, embody irregularities which should exist. C. S. Le-Sure, landscape architect

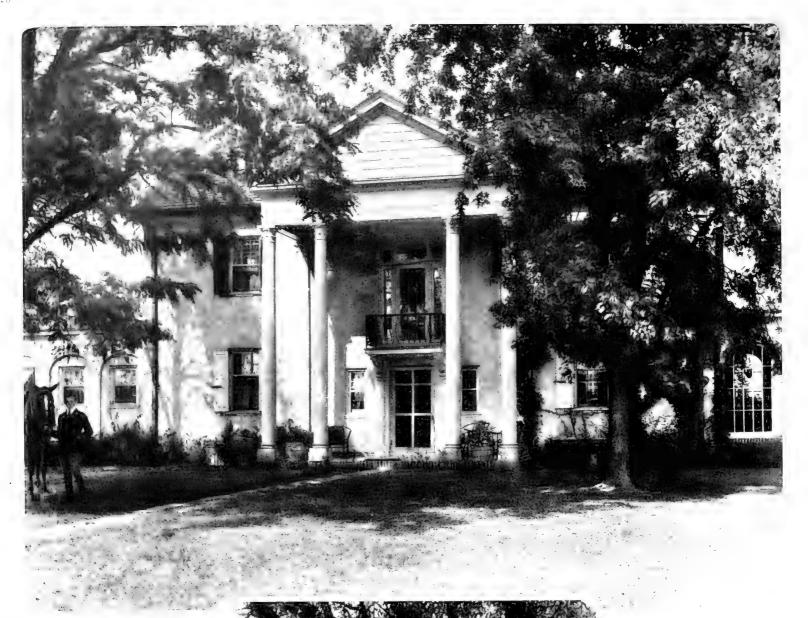
Shrubs should be so selected that the planting will have general year-round beauty. There should be good flower value in spring and early summer, attractive summer foliage, brilliant autumn leaves, colored barks and fruits for fall and winter. A list of good shrubs, together with the distances apart at which they should be planted, is as follows:

Tall shrubs: white kerria,  $3\frac{1}{2}$ ; Aralia pentaphylla, 3'; Spiraea van Houttei,  $3\frac{1}{2}$ ; Regel's privet, 3'; English privet, 3'; Persian lilac, 4'-5' Low shrubs: Japanese barberry, 2'- $2\frac{1}{2}$ '; snowberry, 2'; Indian currant, 2'; spirea Anthony Waterer, 2'; Deutzia gracilis, 2'; Spiraea callosa alba, 2'; and Stephanandra flexu-

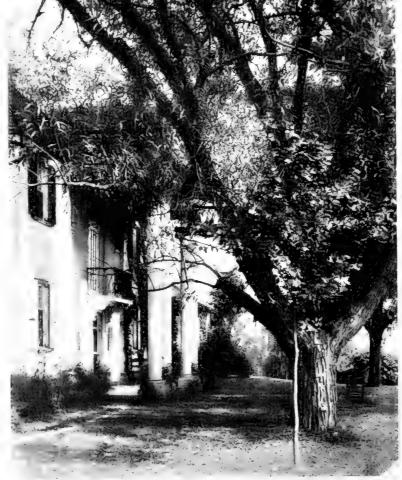
The shrubs should be planted in thoroughly prepared and fertilized beds of pleasing outline, long, smooth curves being the best, as indicated in the plans. The distance apart to plant varies with the different species. The spaded beds should be kept cultivated during the growing season until the mass occupies the entire area.

Autumn is the generally recognized season for deciduous shrub planting, since bushes set then become thoroughly established before any demands are made upon them by the growing season. But if they are planted in the spring as soon as the ground can be worked, there is no excuse for failure.





Good architecture alway takes into account the existing reatures of the sixe and it those teatures happen to be noble trees, then half the beauty of the finished picture is already accomplished. At times it is even advisable to change the plans at a house altogether right than destroy the tree



### TREES AND THE HOUSE

How Tree

Make The Setting

The house illustrating this point is a dignified interpretation of Southern Colonial, a type that requires the immediate presence of large trees and the approach of broad lawns. It is the residence of Dr. Harold Springer, at Centerville, near Wilmington, Delaware, Brown & Whiteside, architects

## PLANTING DECIDUOUS TREES AND SHRUBS

General Principles of Arrangement and Specific Details of Varieties, Combinations and Groupings

FOR an immediate effect under trying conditions of soil, exposure and climate, deciduous plants are to be preferred to evergreens. In summer, they furnish luxuriant masses of green flowers, and fragrance; in autumn brilliant coloring and fruits; nor are they devoid of interest in winter, for vari-colored twigs and persistent fruits give as much cheer as the slower growing and doubly expensive conifers. The choice of deciduous material for winter effect is of more importance than is ordinarily supposed, because the texture of the twigs, whether coarse like the *Physocarpus* or fine and glossy like the *Spiræa Van Houttei*, will make a vast difference in the aspect, particularly if it is impracticable to mingle evergreens with them.

Having decided upon deciduous planting as the solution of a particular problem, the choice lies between trees and shrubs. The former are planted for shade, in avenues, as street trees, or in groups on the lawn; for the beauty of their flowers or foliage; for a utilitarian purpose like fruits or nuts; to blot out an unpleasant outlook; or to form accents or high points in massed shrubbery. Sometimes they can be used effectively as isolated "specimens", but this should be attempted cautiously.

#### Shrub Arrangements

Shrubs should be used in masses, though occasional specimens are appropriate, such as the lilacs flanking the entrance gate or the syringa at the house corner. In planting for mass effect two main types of arrangement are to be considered:

There is the suburban place where the grass is clipped and consequently a definite bed line is required, and the shrubs present an unbroken line of green at one with the grass. Such planting needs very careful arrangement, due regard being paid to height, form, and texture of the mass, keeping the idea of bloom, fruit, or other items of individual interest subordinate to the effect as a whole. Of course, spotting of specimens about the lawn is to be avoided. It is desirable to maintain open stretches interspersed with occasional trees, and to screen the boundaries and service portions.

However, mere barrenness should not be mistaken for apparent extent. The inner margin of massed shrubs should be so varied in its contour that it shall half reveal, half conceal the ravishing glimpses which compel one to explore and classify the outlook spiritually; whereas a uniform border would actually make the place appear smaller because the entire vista would be perspected at a glance.

In planning such a border it is necessary to draw a plan showing the shapes of the masses on the ground, and an elevation showing the heights or sky line. As a rule, the greatest thickness on the plan will have a correspondingly greater height in the elevation. Avoid monotony of form in plan and elevation alike. Pointed accents, picturesque Japanese forms, and low spreading types may give variety to the softly rounded masses. In many places

PLANTING LIST FOR SUBURBAN PLACE

ELIZABETH LEONARD STRANG, Landscape Architect

TREES

1. Berlula pepulifolia, 11 plants, grosses and strain useful for effect of immediate height. 4-6/6
2. Acter Ginnala, 3 plants, and specimens.
Tartarian maple, small tree to 20', red stems and strain.
Laurel leaved willow, small tree, dark glossy foliage useful for quick screen. 5'
SHRUBS

Syring culgaris hybrids, 5 plants, 4' apart. 4'
Cornus magnula, 3 plants, 4' apart. 4'
Cornus magnula, 5 plants, 4' apart. 4'
Cornus magnula, 5 plants, 3' apart. 4'
Cornus magnula, 5 plants, 4' apart. 4'
Cornus magnula, 5 plants, 5'
Syring culgaris hybrids, 5 plants, 3'
apart. Hybrid liace Marie LeGrave, single white Michael Buchare, double
6'
Covered with luturiant green very carly, 2'-3'
Covered with luxuriant g

these masses are high to shut out undesirable outlooks, in other parts low to frame pleasant views. It is not necessary that each part of the border shall be graded down in three heights, tall, medium and short, as is sometimes advocated. This tends to stiffness, but it is decidedly important that all leggy or ungainly plants shall be faced with smaller shrubs whose foliage grows closely down to the ground. Finally, having thus carefully selected and arranged the plants according to form, something attractive should be included for each season of the year, from the pussy willows and Cornus mas of early spring to the witch hazel of late autumn or the golden barked willows and hawthorne berries of winter.

The second type of massed shrubbery planting to be considered is on the country place where a high degree of polish is neither necessarv nor desirable. This affords a delightful opportunity of creating informal woodsy plantations of mingled trees and shrubs. If properly done it need not be limited to wild sites, but may be introduced in suburban or large city places. However, it requires greater art in its execution than the first type, since the average gardener in his zeal to have everything tidy, spoils the hoped-for informality by sharp edges of turf and too much clipping. In this kind of planting the trees are set close together as they are found growing in nature, even though to do so hinders their best individual development. There is no attempt to have an unbroken wall of foliage, but the effect is more mixed, twiggy, and open, with deep shadows and leafy undergrowth. No definite bed line is desirable, but this merging of turf with shrubbery is always a difficult problem to handle, since it entails endless labor in keeping grass and weeds away from the base of the shrubs. In the real country the grass growing long will not look out of place, but in places where greater neatness is desirable, wild violets will luxuriantly clothe the bare soil, and quite choke out all undesirable undergrowth.

#### Formal Uses

Still a third way of using shrubs or small trees is in an architectural way in the formal garden. A close hedge of Lombardy poplars 15' high may stand across the end as a screen, while at the sides are luxuriant green masses of honeysuckle and syringa, pruned back to encourage a dense growth. In front of the poplars the fine textured Stephanandra and Spiraa Van Houttei contribute to the garden's frame of verdure, while the service entrances are almost entirely concealed by arching privet. The flowering trees used as accents could be pink crabs or cherries, standard lilacs or snowballs, or specimen white dogwoods. The beds are edged by a low clipped hedge of Japanese barberry, with higher accents at the corners of Spiræa Van Houttei. Both of these shrubs are very amenable to clipping. The former is much used in regions where box is not hardy, and where an evergreen edging is too expensive or slow growing.



(Left) Barberry
is one of the
best low hedging shrubs, especially for the
borders of paths
and driveways.
Its persistent
scarlet berries
are a winter asset

(Below Buckthorn deserves far more attention than it has received in this country. It is hardy, tall growing, and dense when properly pruned







During the summer the great white heads of the hydrangeas make a splendid showing along a driveway

#### THE ART OF HEDGING







Another flowering hodge of great worth where formality is not required can be made of multiflora roses. Various colors can be selected, the while and pinks being especially effective

Finally, there is the ubiquitous privet which, despite the frequency with which it is used, is the best for many situations. Some of the newer forms are more hardy than the commonly used California variety



Where the space is large, as in a sun-room or conservatory, effective use can be made of ivy on wall lattices of various sorts. The necessary pots and other soil containers can be decorative adjuncts in themselves if well selected



The wall fountain and tiny pool a d d immensely to the sunroom where their use is possible and fitting. Basides permitting the growing of aquatic plants, the water itself will help keep the air moist for the other flowers

The
GARDEN
INSIDE
the HOUSE



Erica australis is one of the varicties of heather which assume admittely tree like form, though the momination



I pper center. Enca cupressa
sas small, pink blossoms, E.
Fdouard VII (center) rose pink
oms, and E codonodes is pale
pink



Proc. 1 white English heath which is a transfer of perfective methic country. Compact form and small, densely massed lowers characterize it



The flowers of Acacia Drummondii are in dense, drooping spikes of a pale lemon-yellow color, from 1" to 2" long

At the lett is Erwa Mediterranea, a variety with rose, pale red or white blossoms. With protection, it should be hardy south of New York

Another of the many varieties of heather is President Carnot, whose pinkish flowers suggest those of the tall Spanish form in the upper picture



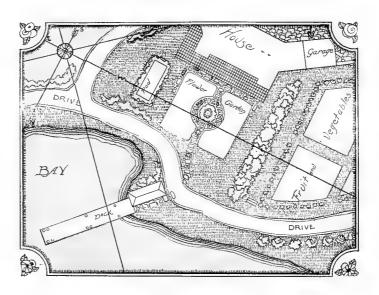
MINIATURE SHRUBS for INDOOR BLOOM

Under Proper Conditions They Are Both Odd and Ornamental



#### THE LANDSCAPE DESIGN

Showing the Use of Color, Plans, Paths, Steps, Arbors, Statuary and The Other Accessories of Garden Enrichment





#### A STUDY IN GARDEN TEXTURES

Nature is generous to the gardens of Bar Harbor. However hot the day, evening always brings a cool dew to refresh the plants and assure sturdy growth. Moisture blows in from the sea, giving life to the trees and green to the lawns. This accounts for some of the rich growth in the garden of Mrs. John

S. Kennedy, a spot that affords a pleasant study in garden textures. Here is the velvet of a rich, deep lawn, here the endless play of light and shade among the phlox, delphiniums and marguerites. Above the wall Lombardy poplars sweep eloquently and the turfed alley leads gently toward the pergola in the distance

#### PLANNING GARDENS OF ONE COLOR

The Principles of Color Variations, Contrasts and Harmonies Applied to Gardens of Blue, Red and Yellow

WHEN we speak of a garden being of one color we mean that one color predominates, and that such flowers as have contrasting and harmonious tones are used with it to give the predominant color greater prominence. This may be interpreted in several ways—a yellow garden in spring, a blue garden in midsummer and a red garden in the autumn. Or, if the owner's penchant for one color is very decided, the plants can be so selected as to carry that color through from spring to au-

tumn. The color variations are infinite. Here we can discuss only gardens of blue, red and yellow.

To be effective, the flowers for a blue garden must be of a true blue color, entirely free from tones verging on lavender and violet. Inasmuch as blue is a receding color more of it must be used than is necessary in the case of strong, advancing colors like scarlet and yellow, and the effect will be weak unless employed in masses sufficiently large to overcome this tendency.

Because a garden of one color is always uninteresting, there should be added to the blue at each season a little deep, royal purple of a shade that reveals no hint of red or magenta and whose velvety richness almost equals the contrast value of black. Such a purple combined with pure sky blue achieves dazzling results. To intensify the blue in the foregoing contrast, introduce some pale yellow and creamy white. The deeper the blue, the more intense the yellow.

Accordingly the pale blue of anchusa or flax looks best with the straw color of Iris flavescens, and the deep cobalt of Veronica with the intense orange of the California poppy. It is necessary to bear in mind, however, that these contrasting tones must at all times be kept strictly subordinate

to the particular blue with which they are used. In making the plan for the blue, or any other color garden, it is impossible to forecast the results to a nicety; but if the contrast proves too strong when the garden is in bloom, it is

easy to reduce the tone by sufficient blossoms to secure the proper effect.

The location of the various plants will depend on their height and the form of the plants themselves. For example, spikes of gladiolus beside soft masses of gypsophila; larkspur in

large round masses in the center of the beds where they may dominate during their period of bloom; asters around the boundaries where they may grow inconspicuously in the fore and mid parts of the season. An early flowering plant should have a correspondingly late one in front of it, which will hide the vacant space when the former dies.

In order to test the distribution of color and bloom for each season, lay pieces of tracing paper over the plan, one piece for each season.

and trace in color the masses that would be in bloom at that particular time.

These same general principles apply to any kind of color garden. The one great rule to remember is that the colors must be strong and bold and undiluted.

For a time the American gardeners had a flair for what they called pastel shades—colors diluted by white or hues diluted by black, resulting in general effects of soft pink and pale blue and mauve. These gardens were restful, but one tired of them. In the majority of cases the garden of bright, intense effects is more desirable. In the country where everything is green, a bit of bright coloring is a relief in a monotony of verdure.

This is the justification for a red garden. Skillfully place red flowers in patches against a background of red foliage with which are mingled white flowers of fine texture, and you have real beauty. Such a garden cannot be large. The choice of white flowers to combine with the red should also be limited to those of small size and soft texture or of solitary stateliness.

The larkspurs, in a wide variety of blues, supply a dominating note during June, and well on into July



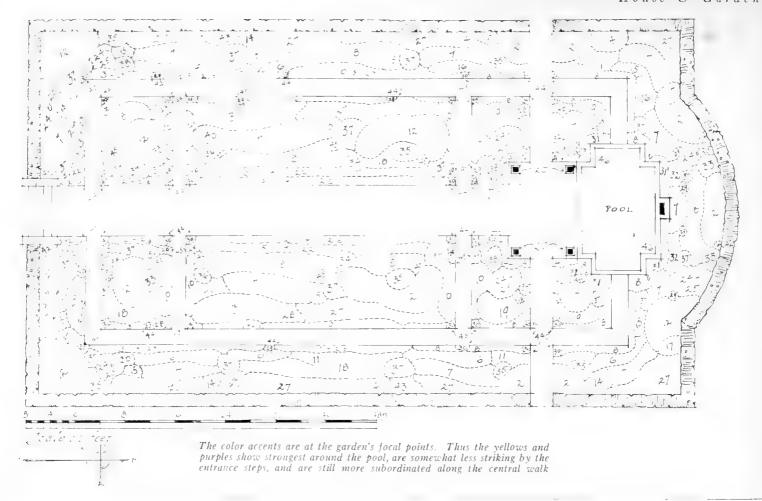
Because of their variability, it is difficult to get aquilegias of a uniform blue. But they are good for secondary positions



From early July until October the showy, light blue bells of the platycodons are one of the garden's real sights



The mertensia, or Virginia cowslip, blooms in late April and May. It is light blue, with luxuriant gray-green foliage



#### PLANTING LIST FOR A BLUE GARDEN

#### SPRING

Chunedexa Lucilae: Glory-of-the-snow, 3"-6", mid-March to early May. Light blue, shading to white at center.

shading to white at center.

Scilla Sibirica: Siberian squill, 2"-6", March and April. China blue of a greener cast than the chionodoxa.

Muscari botryoides, var. Heavenly Blue: Grape hyacinth, 6"-0", April and May. Deep blue flowers in clusters.

Puschkinia Libanotica: Striped squill, 4"-12", late April to early May. Bluish violet.

Perennials
5. Mertensia Uirginica: Virginia cowslip, 1'-2',
late April to late May. Flowers pendant,
tubular, light blue with pink buds. The
luxuriant gray-green foliage dies down later
in the summer.

This was Obal: Italian alkanet, 3',

Anchusa Italica, var. Opal: Italian alkanet, 3',
May and June. Light blue, masses well,
very effective.

Myosotis dissitiflora: Early ferget-me-not, 6"-12", late April to July.

Myosotis palustris, var. semperflerens: Everblooming forget-me-not, 6"-12". May to September. Both are light blue, the former growing tall and branching as the season advances.

- advances.

  Pellemonium reptans: Greek valerian, 6"-8",
  late April to early June. Creeping border
  plants of light blue, slightly lavender.

  I num ferenne: Blue flax, 18", mid-May to
  August. Light blue, small flower on delicate stems.
- Aquilegia carulea: Rocky Mountain blue colum-bine, 1'.2', May and June. Some of the selected hybrids are also good blues.

SUMMER
BLUE

Delphinium hybrils: Larkspur, 2'-5', June and
July. Many tones of dark and light blue,
combining well. The variety Belladenna
is a clear light blue.

Veronica maritima: Speedwell, 2', July to September; large spikes.

tia uliginosa: Sage, 4', June until frest. Light blue flowers with gray foliage. Locks best in background, as it is somewhat

Peronica longifelia var. subsessilis: Speedwell, 3', mid-July, lasts a month. Deep cobalt blue spikes.

Eupatorium calestinum: Mist-flower, 1'.2',
August to November. Dull blue, flat-topped
clusters resembling ageratum.
Aconitum autumnale: Monksheod, 4', August
and September. Dull blue, shading to white.

\*18. Platycodon grandiflorum: Japanese bellflower, 1'3', early July to October. Very large, showy, wide-open bells of light blue, pinker in tone than the larkspur. The same color as the Campanula persicifolia, which has been omitted from the June list as not quite larmonizing with the larkspur, the ugh excellent alone.

19. Salvia azurca: Pitcher's sage, 3'-4', August and September. Slender spikes of pale blue in great abundance, gray foliage.

20. Agaranthus umbellatus: African lily (bulb), August. Large umbels of deep blue flowers on tall stalks. Should be grown in pots or tubs: not hardy.

21. Ageratum (annual): Heads of blue flowers, frost-resisting.
a. Little Blue Star, 5", light blue.
b. Dwarf Blue, 9", deep blue.

22. Annual larkspur: Light blue. 2', satisfactory in color and ferm.

23. Nemesia (annual): Light blue, 1'. Covered with masses of small light blue flowers, Other good light blue annuals are nemo pnna with light blue cup-shaded flowers, and nigella or love-in-a-mist.

#### AUTUMN

AUTUMN
BLUE

Aconitum Fischeri: Monkshood, 2', September and October. Dwarf, with very large pale blue flowers.

Aconitum Wilsoni: Monkshood, 5'.6', September and October. A taller variety with the same large light blue flowers.

Aster Acae-Beljin var John Word, 3', September, Clear blue flowers in large clusters.

Aster, Climax: 5', September and October.

Very large light blue flowers with yellow centers.

Gentiana scabra: Japanese centing 2

Gentiana scabra: Japanese gentian, 2; very late. Intense blue.

#### SPRING

Tulipa Kaufmanniana: A very early tulip appearing in March or April. Flowers somewhat spreading, of creamy white with primrose yellow center, the outside striped and tinged rosy red.

Narcissus in pale yellow varieties.

Barri type: short cup, pale yellow perianth, orange eve.

Barri type: short cup, paie yenow perianta, orange eve.
Poetaz hybrids: short cup, in clusters on stem, pale yellow, fragrant.
Leedsii type: short or chalice cup, very pale creamy yellow or white.
Tulp, Moonlight: A May-flowering variety, having globe-shaped flowers of pale luminous yellow on tall stems.

Perennials

32. Iris Germanica, var. flavescens: Flower-de-luce, 2'-3', blooms in May. Very pale straw color.

#### SUMMER

SUMMER
YELLOW
Rose, Harrison's Yellow: 3'.5', June. Small semi-double flowers completely covering the bush.
Thalictrum flavum: Meadow rue, 2'.4', July and August. Tassels of greenish yellow.
Clematis recta: Herbaceous Virgin's Bower, 2'.4', early June to mid-July. Creamy white mass, needs to be tied up.
Anthemis tinctoria, var. Kelwayi alba: Yellow marguerite, 2'.3', June to October, but at its best in July. This variety is very pale yellow.
Gypsophila baniculata. Behale Persil. 2'.4'.

yellow.

Gypsophila paniculata: Baby's Breath, 2'.3', July and August. Mass of very small white flowers. Double form is also good.

#### **AUTUMN**

38. Hardy chrysanthemum: Small golden button, 2'.3', October and November.

#### SPRING

PURPLE
30. Crocus purpurcus grandiflorus: Large, deep purple crocus, 3"-6", March and April.

40. Iris Germanica, var. Purple King: Flower-deluce, 2'-3', May. Of a very deep purple, one of the earliest of the family to flower.
 41. Viola cernuta, var. Purple Queen: Tufted pansy, 6"-8", May and June, and more or less all summer. A very deep purple.

#### SUMMER

SUMMER
PURPLE

Clematis Jackmanni: Deep purple clematis,
June and July. With the larkspur. A vine
which should be trained on a trellis.

Phlox paniculata var. The Blue Hill: 3'.4',
August and September. Intense blackish
purple.

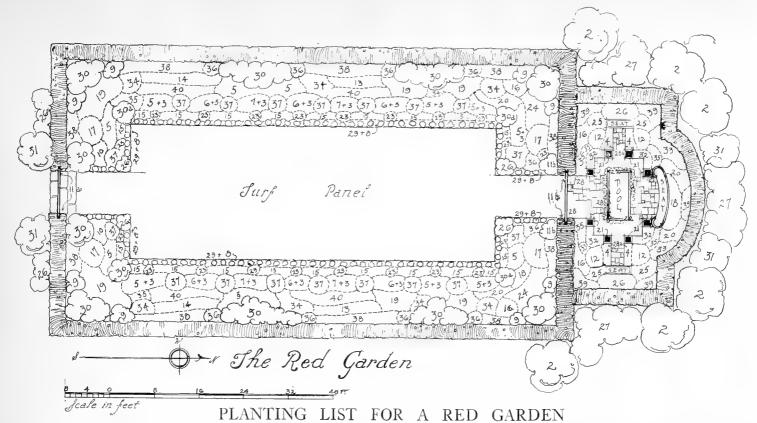
Purple petunias (annual): Only use a certain
variety which is of deep, dark purple;
none of the reddish ones.

Purple gladioli (annual bulbs) var. Baron
Hulot: Later summer, time of bloom depending on how late it is planted.

#### AUTUMN Purple

ne bloom from violas and petunias; and gladioli if planted in early July will bloom in October and November.

\* Plants marked thus used for dominant effect.



#### SPRING

- 1. Tsuga Canadensis, hemlock: for hedge, 3' high,
- Tsuga Canadensis, hemlock: for hedge, 3' high, 2½' apart.
  Acer rubrum, red maple: frame planting, trees 10' to 12' high.
  Early tulips: Mais, dazzling scarlet, darker inside, model form, first to bloom; Dusart, deep crimson, large, finely formed flower, second to bloom; Kohinoor, deep velvety crimson, purplish bloom, the darkest red tulip, third to bloom of the early sorts.

  Trillium erectum, wake-robin: very dark red, medium height, late April to carly June.
  Paeonia officinalis, common garden peony: double crimson, likes half shade, mid-May to mid-June, 2'-3'.

  Paeonia tenuifolia, red peony: large single flowers and fine feathery foliage, likes half shade, mid-May to mid-June, 1'-1½'.
  Paeonia paradoxa, herbaceous peony: compact, dwarf plant, single crimson flowers, glaucous foliage. Half shade, late May, 1'-1½'.
  Late tulips: Eclipse, glowing blood-red, steel

- 1'.1½'.

  Late tulips: Eclipse, glowing blood-red, steel blue base, probably the best for combination with old-fashioned peony, second to bloom, Esato, bright blood-red, rich purple bloom on outer petals; King Harold, deep ox-blood red, purple-black base, third to bloom; Inglescombe Scarlet, vermilion red, black base, fourth to bloom.

  Rhododendron hybrid, Abraham Lincoln: very dark red.

  Dianthus cruentus, dark red pink: Inne and
- dark red. nithus cruentus, dark red pink: June and July, 1'-11/2'.
  White

Amelanchier Canadensis, shad bush: small tree covered with small white flowers in March and April.

- 28. Sanguinaria Canadensis, blood-root: March and early April, 3".6".

  28a. Trillium grandiflorum, large flowered wakerobin: pure white, very large flower, half shade, May to early June, 6".12".

  29. Arabis alpina, rock cress: low white, early April to late May, 6".

  30. Spiraea van Houttei, Van Houtte's spirea: May, 3'.6'.

  30a. Spiraea Contonensis: May, lower bush but larger flowers than the above.

  31. Syringa zulgaris, var. alba, common white lilac: May.

- May.

  Paeonia albiflora, var. The Bride: large single, faint flush rose, golden stamens, early.

  Thalictrum aquilegifolium, feathered columbine: half shade, late May to mid-July, 1'-3'.

  Thalictrum flavum. fen rue: greenish yellow, half shade, July-Aug., 2'-4'.

  SUMMER
  RED

- RED
  Climbing roses: Crimson Rambler; Silver Moon, single, large, silvery white.
  Papaver bracteatum, oriental poppy: blood-red, late May to mid-June, 3'-4'.
  Potentilla argyrophylla, var. atrosanguinea, cinquefoil: sun, June and July, 2'-3'.
  Geum atrosanguineum florepleno, var. Mrs.
  Bradshaw: double deep crimson avens, June-July, 1'.
  Heuchera sanguinea, coral balle, rodding the
- June-July, 1'.

  Heuchera sanguinea, coral bells: nodding red bells on red stems, June to late September, 1'.1'½'.

  Monarda didyma, bee balm: ragged blood-red heads, effective. Mid-June to early September, 1½'.2'½'.

  Althaea rosea, hollyhock: dark red selected shades. Sun, July-August, 5'.8'.

  Lobelia fulgans, shining cardinal flower: larger, deeper red and more showy than the other, July-Aug., 2'-3'.

- Phlox paniculata, var. Montagnard: deep bloodred, July to October, 3'-4'.
   Lobelia cardinalis, cardinal flower: August to mid-September, 2'-4'.
   Lycoris sanguinea, blood-red amaryllis: sun, July-Aug., 1'-3'.
   Tuberous begonia: deep red.
   Gladioli, red varieties of pure color: Princess Orange, Governor Hanley, Cherry King.
   Dahlias: J. H. Jackson, cactus, dark crimson maroon; Le Grant, decorative, velvety red shaded maroon.

#### WHITE

- Clematis recta, herbaceous virgin's bower: sun, early June to mid-July, 2'-3'.
   Iris Kaempferi, Japanese iris, var. Gould Bound: white with yellow markings, sun, June-July, 2'-3'.
   Galium Mollinge, mist flower: half shade, June to late August, 1'-3'.
   Gypsophila paniculata, infant's breath: July-August, 2'-3'.

#### AUTUMN

RED

- Hardy chrysanthemums: Black Douglas, fringed petals, dark mahogany brown, medium early; Brown Bessie, small button, dark brownish maroon; Regal Beauty, deep wine red.
   Berberis Thunbergii, Japanese barberry: planted for foliage and fruit effect of brilliant red.

#### WHITE

- Boltonia asteroides, aster-like boltonia: sun, late August to mid-October, 2'-8'.

  Anemone Japonica, Japanese anemone: sun or half shade, late September to early November, 2'-2'/2'.

  Hardy chrvsanthemum, Queen of the Whites: large flowered, medium to late.

As for the quality of the dominant color it-There is a type of yellow garden that could, self, there can, of course, be no mixture of orange, scarlet or crimson tones. What is desired is a real, true red, a glowing ruby or blood color. If white is the peacemaker of the garden,

yellow would seem to be the life of it. The deep golden tones, by their very intensity, seem to be in larger quantities than they really are. Accordingly, in the garden of various colors they contribute most to the general effect when they are used as accents.

At certain seasons, however, we do not object to an entire garden of vivid gold. In spring a garden of crocus, forsythia and daffodils forms a gorgeous though transitory picture; and in the autumn, when sombre tones predominate in the landscape, great masses of heleniums or chrysanthemums create an instant response in the beholder. In midsummer the eve wearies of hot, intense colors, and yellow should then be subordinated.

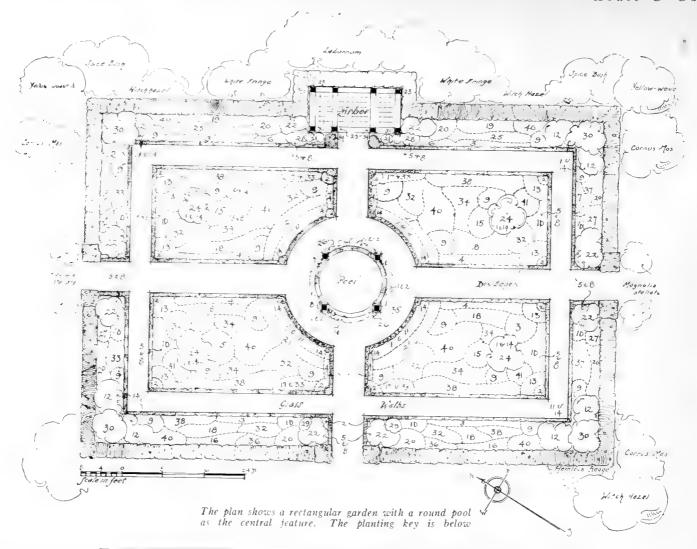
consistently and agreeably, be carried out for the entire season. It is composed of pale primrose-yellow and cream-white, and is selected with the greatest care lest too strong a note obtrude on the softness of the general tone. To avoid weakness or insipidity there is added a dash of the darkest red imaginable—a velvety black maroon with no hint of crimson.

By its very nature the color scheme suggests great breadth of treatment in the arrangement of the flowers in large and effective masses. This effect is achieved by the comparative shortness of the list and the frank, simple design of the garden, which admirably lends itself to well-balanced masses of bloom. A cheerful warmth is its dominant characteristic; an effect accentuated by the dark brown garden house, the russet paths of tan bark or gravel, the rich green of the high encircling hemlock hedge and the dwarf box which frames the beds. Outside the hedge are masses of shrubs

whose effect is that of light and grace itself.

The year begins in February with Japanese witch-hazel; in March this is followed by sprays of spice bush, Cornus mas in April, and in late autumn by the native witch-hazel. All of these have delicate blossoms of light yellow, which in May become very striking with the aid of laburnum or golden chain. With a certain percentage of white-for instance, in April the Magnolia stellata, the fringe-like creamy yellow wood and the white fringe-tree in late spring—we evolve a contrasting background.

Inside the hedge certain shrubs and roses pay royal tribute. At the outer corners are strong masses of strawberry shrub whose cinnamon-scented brown flowers are an effective foil to the snowy white cascades of Spiraea Van Houttei. All the entrances are sentinelled with Harrison's yellow rose, an old-fashioned favorite, in early June a shower of fragrant semidouble blooms of sulphur yellow; while in front of them are some dark red varieties.



#### PLANTING LIST FOR A YELLOW AND MAROON GARDEN

EARLY SPRING—APRIL AND MAY
YELLOW—PERENNIALS
Primula rulgaris: English primrose; large solitar;
flowers of palest yellow.
Primula reris superba; giant yellow polyanthus;
very large flowers in clusters, pale yellow,
golden eye.
Alyssin saxatile, var. Silver Queen: Gold Dust,
a very light yellow variety.
Yellow—Bulbs
Hyacinth, Yellow Hammer; creamy yellow.
Hyacinth, Primrose Perfection: soft primrose yellow.
Natcissus, or daffodils
Leedsii: chalice and short-cupped varieties,
white, cream or pale primrose (best ones
are starred).
'Mrs. Langtry: pure white cup, perianth
primrose.
Fairy Queen: perianth and cup pure white
Katherine Sourrell.

Fairy Queen: perianth and cup pure white. Katherine Spurrell: perianth white, cup soft

Katherine Spurrell: perianth white, cup soft yellow.

Ariadne: perianth ivory-white, cup amber-yellow.

Bridesmaid: perianth pure white, cup flutel, edged primruse.

Duchess of Westminster: perianth pure white, cup soft canary yellow with darker edge. white, cup sort cannot edge.
White Trumpet: trumpet as long as perianth

segments. Lady Audrey: perianth milk white, cup prim-

Lady Audrey: perianth milk white, cup primrose.
Grace Darling: twisted perianth of white, trumpet cream.

"Mrs. Thompson: perianth creamy white; trumpet yellow.
Madame de Graaf: perianth pure white, trumpet yellow.
Madame de Graaf: perianth pure white, trumpet yellow.
Madame de Graaf: perianth pure white, trumpet primrose.
Early tulips
Lord Derby: creamy white, large globulationer.
Princess Ida: white, striped creamy yellow, yellow base.

Maroon-Perennials
Chieranthus Chieri: English wallflower: dark street, almost black.

Prillium erectum: three-leaved night-shade; very dark red.
Maroon-Bules
Latly tulips
Value dull blood red, changing to claret.

#### Larly tulips Apollo: dull blood red, changing to claret, edged amber-brown; very large flower with orcen base. SPRING-LATE MAY AND EARLY JUNE

YELLOW—PERENNIALS

Iris Germanica, var. flavescens: German iris, light straw color.

Peony, Delia: deep sulphur yellow with green spot, double.

#### YELLOW-BULBS

11. May-flowering tulips
Moonlight: soft but luminous canary-yellow,
long, oval flowers.
Flava: creamy canary-yellow, large flower on
etiff stem.

long, o.a. ... Flava: creamy canary-yellow, a.e. stiff stem. Miss Willmott: soft primrose-yellow, darker Miss s Willmott: soft primrose-yell with age.
White Shrubs for Contrast

Spiraa Van Houttei: Van Houtte's spirea; droop-ing masses of pure white flowers. Excel-lent background for May-flowering tulips. MARCON-PERENNIALS

Peony
Mrs. Key: single, dark blackish red, golden stamens. stamens.
Rubra triumphans: double, dark red, somewhat bluer in tone.

MAROON-BULBS

May-Flowering Tulips
André Doria: velvety reddish maroon, shading
to blood-red.
King Harold: deep ox-blood red, purple-black

#### MIDSUMMER-JUNE AND EARLY JULY

YELLOW-PERFENIALS

Yucca filamentosa: Adam's Needle; tall, cream-white clusters, very striking. Spiraca filipendula flore pleno: double flowered dropwort, cream-white; tall, delicate clus-

aropwort, Creamanner.

ters.

Hemerocallis flava: early lemon lily.

Aquilegia chrysantha: late-flowering lemon-yellow columbine.

Digitalis grandiilora: late foxglove pale yellow lined brown.

Althwa rosea: hollyhocks, frilled pale yellow and salmon tints.

YELLOW-SHRUBS AND ROSES

Polyantha rose: George Elgar; clear coppery yellow, blooming from June until frost.
Brier rose: Harrison's Yellow: double, sulphuryellow, profuse fragrant flowers.
Clim'ing roses
Goldfinch: soft yellow, changing to lemon and white.
Gardenia: yellow, vigorous, Wichuraiana type.
Cytisus laburnum, var. Adami: golden chain, half standards, 2½-3' high, long pendent tassels of yellow.

MARGON—PERRYMAIS

MAROON-PERENNIALS

MARROON—FERENNIALS

Dianthus barbatus: Sweet William, darkest red
only.

Papaver orientale, var. Mahony: dark crimson
maroon poppy, shaded mahogany.

Altheo vosca: hollyhocks, double maroon.

MAROON-SHRUBS, ROSES AND VINES

MAROON—SHRUBS, ROSES AND VINES
Hybrid Tea roses
Richmond: brilliant crimson-scarlet; well-shaped
buds.
Gruss an Teplitz: scarlet, shading crimson.
Hybrid Perpetual rose: General Jacqueminot;
scarlet-crimson.
Calycanthus floridus: Carolina allspice; chocolatecolored flowers with spicy odor. Medium
size shrub.
Akcbia quinata: good climber, delicate foliage;
violet-brown flowers with cinnamon odor.
LATE SUMMER—JULY AND AUGUST
YELLOW—PERENNIALS
Anthemis tinctoria var. alba: chamomile, a variety
paler than the type; creamy white with yellow center.
Hemerocallis Thunbergii: late lemon lily.
YELLOW—ANNUAL BULBS

YELLOW-ANNUAL BULBS

33. Hemerocallis Thumbergii: late lemon lily.

Yellow—Annual Bulbs

34. Cactus dahlias

Countess of Lonsdale: salmon pink, amber and aprisot.

Cockatoo: fawn yellow, suffused white.

35. Gladioli

Niagara: clear yellow, carmine throat.

Canary Bird: clear yellow.

Klondyke: clear yellow, crimson-maroon blotch in throat.

Fill in after bulbs with annuals, such as lemon snapdragon, cream color dwarf nasturtium Pearl, pale coffee color annual phlox, and canary stocks.

Maroon—Perennials

36. Menarda didyma: Bee Balm; heads of deep red, from mid-June to carly September.

Maroon—Annual Bulbs

37. Cactus dahlias

Phoenix: dark velvety crimson.

Uncle Tom: dark maroon, nearly black.

Fill in after bulbs with annuals, dark red dwarf nasturtium, King of Tom Thumbs, dark red snapdragon.

#### AUTUMN-SEPTEMBER TO NOVEMBER

AUTUMN—SEPTEMBER TO NOVEMBER
YFLLOW—PERENNIALS
Hardy chrysanthennums, September-flowering.
Ralph Curtis: creamy-white.
Wells Primrose: yellow.
Large flowered Ashbury: white suffused sulphur.
King Henry: straw white.
Clematis paniculata: Japanese Virgin's Bower; a perennial vine covered with mass of small white flowers in autumn.
MAROON—PERENNIALS
Helenium autumnale, var. Riverton Gem: yellow, changing to red.
Helenium autumnale, var. Superbum rubrum: color of the blood-red wallflower.
Hardy chrysanthemums
Brown Bessie: small bronze button.
Black Douglas: dark red, large loose flowers.

## ROCK GARDENS AND THEIR ALLIES

Suggestions for Creating a Garden of Alpine Plants, with Those Variations of It, the Bog Garden and the Naturalistic Pool

TODAY the pleas-ure which is derived from the cultivation of small Alpine plants is fully recognized and enjoyed by the owner of the medium and small sized property. The rock garden—or Alpine garden, as it is sometimes called-has become a popular feature of modern landscaping and is no longer found only on large estates and public parks. It is a place of informal outline, closely akin to the wild garden, and is developed along naturalistic lines, aiming toward the picturesque in landscape design and avoiding straight lines and set arrangements.

There are two types of rock gardens: the natural and the artificial. In the first. the rocks have been placed by nature; and in the second they have been arranged



A remarkably successful development of the rock garden. The site is well chosen for its seclusion and freedom from cold winds. In the left center can be seen the entrance to a grotto. An abundance of plants gives the garden that sense of color and delicate growth so necessary to set off the rugged lines of the rocks and put them into their proper place in the general scheme. John Handrahan, landscape architect

by man. The old quarry, the rocky bank, and the rocky knoll and valley all lend themselves to the development of the natural rock garden. Suggestions for the construction and care of an artificial rock garden, as well as planting lists of reliable Alpine flowers, evergreens and ferns for the natural rock garden, are given on the following pages. From them a selection can be made for any situation.

The true rock garden should be treated as an isolated feature of a property. The site chosen for this type of garden, when circumstances permit, should be away from and out of sight of anything formal. No hard and fast rule for the choice of a site can be given, for it obviously depends upon what sites are available. While a

### PLANT MATERIAL for the ROCKY BANK

Abronia latifolia (sand verbena): trailing, lemon yellow, blooms July.

Achillea tomentosa (wooly yarrow): 1', bright yellow, blooms July-October.

Adonis amurensis (pheasant's eye): 8", yellow, blooms March.

March.

Adonis pyrenaica: 1', deep yellow, blooms May-July.

Adonis cernalis: 1', yellow, blooms April-May.

Aethionema coridifolium (aethionema): 6", rosy-pink,

blooms June-July.

Aethionema grandiflorum: 12", rosy purple, blooms

June

June.

Ajuga genevensis (bugle-weed): 8", bright blue, blooms

May-June.

Ajuga reptans: 6", blue, blooms May-June.

Alyssum alpestre (madwort): 3", golden yellow, blooms

Alyssum alpestre (madwort): 3", golden yellow, blooms May-July.

Alyssum montanum: 3", yellow, blooms June-July.

Alyssum saxatile compactum (rock madwort): 1', yellow, blooms April-May.

Androsace lanuginosa (rock jasmine): trailing, rose, blooms May-October.

Aquilegia alfina superba (columbine): 2', blue and white, blooms May-June.

Aquilegia canadensis: 2', red and yellow, blooms May-June.

June.
Aquilegia chrysantha: 3', yellow, blooms June-August.
Aquilegia coerulca: 18", blue, blooms May-June.
Aquilegia flavellata: 1', pure white, blooms May-June.
Aquilegia nivea grandiflora: 2', white, blooms May-

Aquilegia Skinneri: 2', greenish yellow, blooms May-June. Aquilegia vulgaris alba fl. fl.: 2'-3', white, blooms

May-June.

Arabis albida (rock cress): 5"-9", pure white, blooms April-May.

Armeria alpina (thrift): 6"-10", pink, blooms May-Armeria maritima: 6", pink, crimson, blooms May-

June. Asperula hexaphylla (woodruff): 6"-8", white, blooms May-June.

Asperula odorata (sweet woodruff): 6"-12", white, blooms May-June.

Aster alpinus (blue mountain aster): 5"-10", bright purple, blooms May-June

Aubretia deltoides (purple rock cress): 4"-6", dark violet, blooms April-May.

Aubretia purpurea: 4"-5", purple, blooms April-May.

Bellis perennis (English daisy): 5", white and pink, blooms May-June.

blooms May-June.

Bellis rotundiflora coerulea: 4", white, tinged lavender, blooms May-June.

Caltha palustris (marsh marigold): 1', golden yellow, blooms April-May.

Caltha painstris fl. pl.: 6", bright yellow, blooms April-

May.

Campanula alpina (bell-flower): 6"-10", blue, July. Campanula carpatica 9"-18", blue, blooms June-July. Cerastium alpinum (chickweed): 2"-4", white, blooms May-June.

Cerastium tomentosum (snow in summer): 6", silvery foliage, white flowers, blooms June.
Centaurea dealbata (bachelor's button): 18", deep pink,

blooms July-August.

Chrysanthemum arcticum: 12"-18", white, blooms September-November.

temper-November.
Claytonia virginica (spring beauty): 6", light pink, blooms April-May.
Convallaria majalis (lily-of-the-valley): 6"-12", pure white, blooms May-June.
Crucianella stylosa (Crosswort): 6".9", crimson, pink,

Crucianella stylosa (Crosswort): 6".9", crimson, pink, pale rose, blooms June-September.

Delphinium chinense (larkspur): 12"-18", gentian blue, blooms June-September.

Dianthus barbatus (sweet william): 12"-18", rcd, white, rose, blooms June-July.

Dianthus deltoides (maiden pink): 8"-9", pink, white, blooms June-July.

Dianthus neglectus: 8", bright rosy pink, blooms June-September.

Dianthus plumarius (grass pink): 1', various colors.

Dianthus plumarius (grass pink): 1', various colors, blooms June-September.

Dicentra canadensis (squirrel corn): 6", white, blooms

Dicentra spectabilis (bleeding heart): 1', pink, blooms May-June.

Dracocephalum Ruyschiana (dragon's head): 8"-12", purple, blooms June-July.

Doronicum excelsum (leopard's bane): 18"-2', bright yellow, blooms April-May.

Epimedium alpinum (barrenwort): 9", dark crimson, yellow, blooms May-June.

Epimedium violaceum: 9", violet, blooms May-June.

Euphorbia polychroma (milkwort): 2', chrome yellow, blooms April-May.

Gentiana acaulis (gentianella): 18", deep blue, blooms August-September.

August-September.

Gentiana Andrewsii (bottle gentian): 18"-24", deep blue, blooms August-September.

Geranium sanguincum (crane's-bill): 1'-18", deep pur-

ple, blooms June.

Geranium sanguineum var. album: 18", white, blooms

June.

June.
Globularia trichosantha (globe daisy): 6"-8", blue, blooms May-June.
Gytsophylla repens (baby's breath): 4"-6", bluish white or pale pink, blooms June-July.
Helleborus niger (Christmas rose): 9"-15", white and purple, blooms March-April.
Hepatica triloba (common hepatica): 4"-6", white, lavender, pink, blooms April-May.
Heuchera sanguinea (coral bells): 18", bright crimson, blooms June-September.
Heuchera brizoides: 18"-2', purple, pink, blooms June-September.
Hypericum calycinum (Aaron's beard): 1', golden yel-

Hypericum calycinum (Aaron's beard): 1', golden yel-

low, blooms August.

Hypericum Moserianum: 18", golden yellow, blooms June-September.

Iberis sempervirens (candytuft): 10", white, blooms April-May.

Iberis sempercirens var. Little Gem: 6", white, blooms April-May.

April.
Incarcillea

April.
arrillea Delavayi (Delaway's incarvillea): 1'-2',
purplish rose, May-July.
arrillea grandiñora: 1', bright rose color, blooms
May-June.



Boulders and a tiny stream well combined. Notice how effectively the large elm tree focusses the whole effect.

The foreground flowers are Phlox subulata

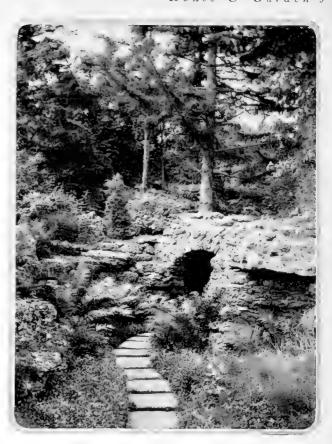
rock garden can be made almost anywhere upon a property, a natural site often exists and needs only to be recognized.

The ideal situation involves the finding of a sequestered and sheltered part of an estate where sufficient but not too much sunshine can be obtained and in which the plants will be

protected from the cold winds of winter. If it is possible, select a place with an approach through the wild garden or shrubbery. A stream should be brought through the garden if there is not already running water. A stream greatly increases the variety of plants that may be grown, affords unlimited possibilities, and adds much to the charm of the garden. An open situation, away from the roots of encroaching trees or tall shrubbery, should be selected, with sloping, undulating ground and preferably facing south or southeast. There should be no trees within fifteen yards of the garden, for their roots extract the plant food from the soil and the dripping from their branches is detrimental to most Alpine plants.

The proper building of the garden is of the utmost importance, and

should be done step by step. Remember that the object of a rock garden is to grow plants and not rocks. It is well to go to Nature and study some natural geological formation rather than try to build a second Stonehenge. Have a definite design from which to work. Aim at variety and balance in your plan and avoid



Artificial rock-work must be handled with restraint to avoid grotesqueness. Quite fittingly, the entrance to this naturalistic grotto is flanked by tall ferns

fussy effects. Place your stones so that the finished effect will reproduce in small rock gardens some portion of an Alpine scene, and in medium sized or large ones the scene in its entirety but on a small scale.

In placing the rocks remember that the object is to make the visible ones appear to be

Tris pumila (dwarf iris): 4"-8", deep violet, blooms May

'ris pumila florida: 6", lemon yellow, blooms May.

Tris pumila formosa: 6"-8", light and dark violet, blooms May.

Linum flavum (yellow flax): 1'-2', yellow, blooms June-July.

Linum frequire (herennial flax): 1' blue blooms Inne-

Linum ferenne (perennial flax): 1', blue, blooms June-

August hnis Haaqeana (shaggy lychnis): 8"-12", red, blooms June-August.

Lysimachia nunmularia (moneywort): 1"-2", yellow, blooms June-July.

Mertensia virginica (mertensia): 18", blue, blooms

May-June

May:June.

Myosotis falustris semferflorens (forget-me-not): 8",
blue, blooms May:September.

Myosotis algestris: 3":8", blue, blooms May:September.

Nefeta glechoma (ground ivy): 3", blue, blooms May-

June.

Oenothera missouriensis (Missouri evening primrose):
1'-2', yellow, blooms June-August.

Oenothera cespitosa (syn. marginata): 9", white,
blooms July-September.

Oenothera fruticosa Youngii: 18", yellow, July-Octo-

her.

Oenothera taraxacifolia (syn. acaulis): 6".9", white changing to rose, blooms July-October.

Pachysandra terminalis (spurge): 6".9", greenish white, blooms May-June.

Paparer alpinum (Alpine poppy): 6", white, blooms May-June.

May-June.

Paparer nudicaule (Iceland poppy): 12", white, yellow, orange, red, blooms May-October

Pentstemon digitalis (beard tongue): 4"-5", white, blooms August-October.

Phlox ameena (hairy phlox): 4"-6", bright rose, blooms May-June-July.

Phlox distriction (wild squeet william): 12", blooms

blooms May-June-July.

Phlox divaricata (wild sweet william): 12", lilac, blooms April-May.

Phlox divaricata alba: 4"-6", white, blooms May.

Phlox subulata (moss pink): 4"-6", various pink, blooms April-May-June.

Phlox subulata rosca: 3"-6", rose, blooms April-May Plumbago largentae (leadwort): 6"-12", deep blue, blooms April-September.

blooms August-September

Podophyllum peltatum (May apple): 6"-8", white, blooms April-May.
Polemonium reptans (Jacob's ladder): 6"-8", light

blooms April-May.

Polemonium reptans (Jacob's ladder): 6"-8", light blue, blooms April-May.

Polygonatum multiflorum (Solomon's seal): 6"-12", greenish white, blooms April-June.

Primula Sieboldii (primrose): 6"-12", white and various, blooms April-May.

Primula ceris (cowslip): 6"-9", canary yellow, blooms

April-May.

April-May.

Pulmonaria angustifolia (blue cowslip): '6"-12", blue, blooms May.

Pulmonaria saccharata (lungwort): 1"-2", pink changing to blue, blooms May-June.

Kanunculus repens #. pl. (creeping double buttercup): 6"-12", yellow, blooms May-August.

Sanguinaria canadensis (bloodroot): 6", white, blooms April May.

April-May.
Santolina incana (lavendar cotton): 18", silvery white foliage. Saxifraga crassifolia (saxifrage): 12"-15", pink, blooms

April-May-June.

Saxifraga cordifolia: 12", lilae-purple, blooms April-

May Sedum acre (stonecrop): 2"-3", yellow, blooms May-June.

June.

Scdum spectabile (showy stonecrop): 18", lavenderpink, blooms September-October.

Scdum stoloniferum: 6", purplish pink, blooms July.

Silene alpestris (catch-fly): 4", white, blooms July-

Spiraca filipendula (dropwort): 15", white, blooms
June-July.

Trillium crectum (wake-robin): 12"-18", purple, blooms April-May.

Trillium grandiflorum: 12"-18", white, April-May.

Trollius curopaeus (globe flower): 18"-2", pale yellow, blooms May-August.

Trofacolum folyphyllum (nasturtium): trailing, orange yellow, blooms June-July.
Veronica Allionii (speedwell): 6", blue, blooms May-

June.
Veronica spicata 1'-18", bright blue, June-July.
Vinca minor (periwinkle or myrtle): 6", evergreen.
Viola cornuta (tufted pansy): 5"-8", various, blooms
April to frost.

PLANT MATERIAL FOR THE BOG GARDEN

blooms 'March-May. Adonis amurensis (pheasant's eye): 9"-1', yellow

Adonis pyrenaica: 1's golden yellow, blooms May.

Adonis vernalis: 9"-1', deep yellow, May.

Andromeda floribunda (andromeda): 2'-3', white.

blooms early May.

Andromeda polyfolia: 1', pink, blooms May.

Anemone alrina (anemone): 6"-1', white, blooms May.

Arethusa bulbosa (arethusa): 8", rose-purple, blooms

Azalea amoena (azalea): 12"-15", rosy crimson. blooms May.

Azalea hinodegira: 12", brilliant red, blooms May

June.

June.

Azalea procumbens: 2'-3', pink, blooms April-May.

Azalea rosacflora: 3', salmon, blooms April-May.

Azalea vaseyi 3'-4', light pink, blooms early May.

Berberis empetrifolia (barberry): 18"-2', orange.

Boltonia latisquama var. nana (false chamomile): 2',
pinkish lavender, blooms August-September.

Calceolaria plantaginea (calceolaria): 12", yellow,
June-August.

Caltha palustris (marsh marigold): 1', yellow, blooms

April-May.

April-May.

Caltha monstrosa fl. pl.: 12", white, blooms April-May.

Caltha monstrosa fl. pl.: 12", yellow, blooms April-May.

Campanula hederacea (bellflower): 3", bluish purple, blooms May-June.

Contallaria majalis (lily-of-the-valley): 8", white, blooms May-June.

Cypripedium spectabile (lady's slipper): 8", white, blooms May.

Daphne blagayana: 12", creamy white, blooms April-

Dathne cneorum (garland flower): 12", rose, blooms

May-June.
Daphne Genkwa: 3', lilac, blooms May-June.

Daphne Genkea: 3, mac, blooms May-June.
Daphne mezercum: 18", pink, blooms March.
Dicentra canadensis: 6", white, blooms May.
Dodecatheon integrifolia (shooting star): 4"-6", rosy crimson, blooms May-June.
Dodecatheon Jeffreyi: 18", dark rose, blooms May-

only a small part of what is hidden by the soil. Place the additional rocks so that the strata all run in the same direction, putting the largest rocks and boulders at the bottom and burying them one-third in the ground. The size of the stones used should depend upon the size of your garden. Build the rocks and soil carefully together, eliminating air spaces between the The stones rocks. should be placed in such a manner that the water will drain into the soil rather than run off. Finally, remember to leave plenty of pockets for the soil and plants between the rocks.

It is advisable to use rocks that will give an old, weatherbeaten appearance, such as moss-grown stones; but it is of the

utmost importance to avoid anything which will crumble with exposure. Artificial rocks, bricks, old tree stumps or wood of any kind should never be used. Sandstone and mountain limestone are good to use because they are soft and porous and of a moisture-retaining character.

Alpine plants, contrary to a quite widespread belief that they will grow in almost any



To one standing near the rock house shown in the photograph on page 31, this view is presented. Lombardy and Bolles poplars mark the skyline above the golden elders which form a background for the smaller plants

kind of earth, require a good rich soil. Porous soil mixed with leaf mold and well rotted manure, used to a depth of 2' or 3' with a light, sandy subsoil, will give the best results. Avoid a heavy clay soil. The garden must be constantly watched in summer and the ground kept from drying out. An annual top-dressing of soil every spring will prove beneficial to all the plants.

Good drainage is essential to the success of this type of garden. The correct placing of the rocks and the presence of a tiny stream are great aids to proper drainage but are not sufficient in all cases. For dry stone wall gardens it is sometimes necessary to install a sub-irrigation system consisting of a perforated wrought iron pipe placed along the top and rear of the wall. In most cases it is not necessary, however, to irrigate if care is taken in the location and building of the garden.

The planting calls for care and a fine sense of fitness. One's aim should be to have the garden present the best possible appearance throughout the year; this can be accomplished by providing for a continu-

ity of bloom. By using the early spring flowering bulbs such as snowdrops, scillas, crocuses, grape hyacinths, chionodoxa, colchicum and poet's narcissus for early spring bloom, the Alpines and small, compact growing shrubs for spring and summer, and dwarf evergreens for winter when the flowering plants have died down, a pleasing year-round effect results which offers abundant variety.

Gentiana asclepiadea (gentian): 2', blue, blooms July.
Gentiana bavarica: 1', blue, blooms July.
Gentiana Favratii: 1'-2', deep blue, blooms July.
Gentiana Kurroo: 1'-18", blue, blooms September.
Gentiana pneumonanthe: 6"-8", deep blue, blooms August.

August.

Gentiana verna: 1', blue, blooms May-June.

Iris cristata (iris): 6", azure blue and lilac, blooms
April-May.

Iris sibirica: 1', lilac, blooms April-May.

Linnaea borealis: 8"-12", pale pink, blooms June.

Lobelia cardinalis (cardinal flower): 2'-3', red, blooms

August-September.

Lobelia syphilitica: 2'-3', blue, blooms August-Sept.

Muscari botryoides (grape hyacinth): 6", blue, blooms

March-April.

Oenothera Arendsii (evening primrose): 1'-18", pink, blooms May.

Oenothera cespitosa: 12", white changing to rose, blooms May.

blooms May.

Oenothera fruticosa: 18", yellow, blooms May.

Oenothera speciosa: 18", white changing to pink, blooms May.

Orchis foliosa (Madeira orchid): 18", rosy purple, blooms May.

Orchis latifolia: 12", purple, blooms June.

Orchis maculata var. superba: 18"-2', lilac spotted purple, blooms June.

purple, blooms June.

Primula Bulleyana 1', orange scarlet, blooms June.

Primula involucrata: 6", creamy white, blooms April-

Primula japonica: 1', deep crimson to pure white,

blooms May.

Primula pulverulenta: 1', crimson, blooms April-May.

Primula rosea: 6", rosy carmine, blooms April-May.

Primula sikkimensis: 1', yellow, blooms May.

Ranunculus aconitifolius (crowfoot): 2', white, blooms

May. May.

Ranunculus alpestris: 4"-6", white, blooms June-July.

Ranunculus parnassifolius 6", white, blooms June.

Sanguinaria canadensis: 6", white, blooms April-May.

Saxifraga cespitosa: 4", red, blooms April-May.

Saxifraga sanguinea superba: 4", scarlet, blooms May-

July. July.
Saxifraga exarata: 4", white, blooms June.
Saxifraga globulifera: 4", white, blooms May-June. Trillium erectum: 1', purple, blooms May. Trillium grandinorum: 1', white, blooms May.

PLANT MATERIALS FOR POOLS AND PONDS (\* Plants suitable for 1' or less of water, or on banks)

Butomus umbellatus (flowering rush): 2'-3', rose,

blooms summer.
\*Caltha palustris (marsh marigold): 1'-2', bright yellow, blooms April-June.

tow, browns April time.

Carex (sedge): 1'-3'.

Epilobium hirsutum (willow-herb): 2'-4', purplish.

Hippuris culgaris (horse-tail): 2'.

Hotonia palustris (feather-foil): light purple, blooms summer.

\*Iris laevigata (Japanese iris): 2'-3', various, except

\*Iris laevigata (Japanese iris): 2'-3', various, except red, blooms June, July.

\*Iris pseudo-acorus: 2'-3', yellow, blooms June.

Iris versicolor (native blue flag): 2'-3', purple marked with yellow, blooms June.

\*Iris sibirica: 2'-3', lavender, blooms June.

\*Lysimachia thyrsiilora (loose-strife): 4"-6", yellow.

Myosotis palustris (forget-me-not): blue, blooms June.

Nuphar luteum (European yellow pond lily): blooms

Inne. June.

Nymphaea advena (yellow water lily): yellow, blooms

June to August.

\*Nymphaea alba var. candidissima (white water lily):
white, blooms June to August.

\*Nymphaea Marliacca (Marliac's hybrids): white,
blooms June to August.

Nymphaea odorata (native white pond lily): white,
blooms June to August.

blooms June to August.

Nymphaea odorata var. rosea (Cape Cod water lily):
pink, blooms June to August.

Polygonum amphibium: spreading, light rose.

Pontederia cordata (pickerel weed): 2'-4', purple,
blooms June to August.

Ranunculus aquaticus var. lingua major.

Sagittaria latifolia (arrowhead): 6".4', clear white.

\*Typha latifolia (cat-tail rush): 4'-8', brown, July to
August.

PLANT MATERIAL FOR THE DRY WALL (Those which thrive best when planted flat against

a perpendicular rock face are marked (\*). The color, height and period of bloom of these plants may be found under the list of material for the rocky bank.)

Androsace alpina.

"Androsace appna."
Androsace pyrenaica.
Arabis albida.
Ajuga repens.
"Armeria cespitosa.
Aubretias of all kinds.
"Campanula Elantines.
"Companula traditi \*Campanula fragilis. Campanula rotundifolia.

Cheiranthus albinus. Aquilegias of all kinds.
Dianthus arvernensis.
Dianthus suavis.

Gentiana acaulis. Primula marginata. Primula viscosa. Saponaria cespitosa. Saxifrages. Sedum acre. Silene alpestris.

#### PLANT MATERIAL FOR CREVICES BETWEEN WALKS AND STONY STEPS

Ajuga repens (bugle weed).
Alyssum saxatile compactum (silver madwort)
Aquilegias (columbine). Aquitegias (columbine),
Arabis albida (rock cress).
Campanula cespitosa (bellifower).
Campanula rotundifolia (harebell).
Cerastium tomentosum (snow-in-summer).
Cheiranthus alpinus (wallifower). Gentiana acaulis (gentianella). Geranium acaditis (gentianella).
Geranium maculatum (crane's bill).
Gypsophila repens (baby's breath).
Phlox subulata (moss pink).
Portulaca grandiflora (rose moss).
Sanguinaria canadensis (bloodroot). Saponaria ocymoides (soapwort). Sedum acre (wall pepper). Tunica saxifraga (saxifrage). Veronica rupcstris (speedwell).

These early gardens were carefully designed.

Usually a terrace next the

house, with a retaining

wall and broad steps of stone overlooked the par-

terre with its knots or beds

of boxwood. These were

often very elaborate, the pattern deemed of more

importance than the flow-

ers which filled it. Next

came the garden proper, a larger enclosure with broad straight walks and beds of

simple design, the whole always enclosed by a hedge

The Quaker gardens, like those of the Cavaliers,

or high wall.

## THE SPIRIT of OLD-FASHIONED GARDENS

With a Plan for a Garden Reproducing the Atmosphere of the Puritans

AN old-fashioned gar den—how the picture flashes across the mind! Lilac, laburnum, snowballs and syringas arching over the gate and crowding the white pickets of the fence. A sundial and arbor of delicate Colonial pattern; neatly raked gravel paths skirting the box-edged beds wherein graciously nod the flowers our grandmothers loved—hollyhocks, honesty, roses and heart's-ease.

Many such gardens can still be seen, and the old ladies are always smilingly glad to entertain you. They will point out their treasures with particular pride—the old fig tree, the mulberries, and the grapes—and in the arbor before you leave, serve you tea in the blue Crown set.

How can such a garden be reproduced? Was not its evanescent charm too subtle to be expressed in terms of beds and walks,

shrubs and flowers? What was its secret? The old gardens were successful because they filled an actual need in the lives of the people. To appreciate this it is necessary to know how those people lived, and to study their ideals. A modern reproduction of an old-fashioned garden must fill a like requirement in the lives of people today or it cannot be a success, no matter how truly it imitates the old. People are not now so dependent on their gardens for the necessities of life. The raising of

fruits and vegetables for practical use, while not wholly discontinued, in normal times has become subordinate to the growing of flowers for cutting and out-of-door decorative effect. Standards, too, have changed. We are no longer satisfied with the ungentle mixtures of color which the old gardens displayed.

There are distinct kinds of old gardens in each section of the country. In the extreme South is the Spanish type, a walled enclosure of simple though formal design, with roses, heliotrope and carnations, oranges and lemons, figs and pomegranates.

In the Carolinas we associate the walled enclosures about the stately old mansions with live oaks draped in gray moss, azaleas, camellias, and crêpe myrtles.

In Virginia, as with all



In the old-fashioned garden flowers straggled informally over the walks, their background of tall shrubs lending an air of length and seclusion. These gardens, the plan and the text are the work of Elizabeth Leonard Strang, landscape architect

of the Colonies, the earliest gardens were for necessities alone, but soon the luxurious ideas of the Cavaliers began to assert themselves and flowers occupied a definite place in the decorative scheme. Living as they did on large plantations, there were no homely enclosures or cottage gardens. The settlers brought ideas from Holland, acquired during their exile in that country; from Italy, and from England, where the Elizabethan garden was then at the height of its perfection and popularity.

were laid out along ample proportions and long restful lines, but with less of elaboration and luxury as befitted their simpler tastes.

The gardens of the Dutch were trim, minute enclosures, their design based on the square, the circle, or the oval, kept with extreme neatness and over a planted with thowers vegetables herbs and

planted with flowers, vegetables, herbs and fruits, cabbages and tulips occupying especially prominent places among them.

The Puritan nature is found expressed in the gardens of New England, and such designs as they followed were adaptations from the Dutch, though more often the little fenced-in front yards held only simple square beds. The first mention we find of gardens for flowers was in 1629, but from the very beginning there was the useful plot at the back, where lowly back-

door flowers, vegetables, fruits and simples shared in contributing necessities and comforts to their caretakers.

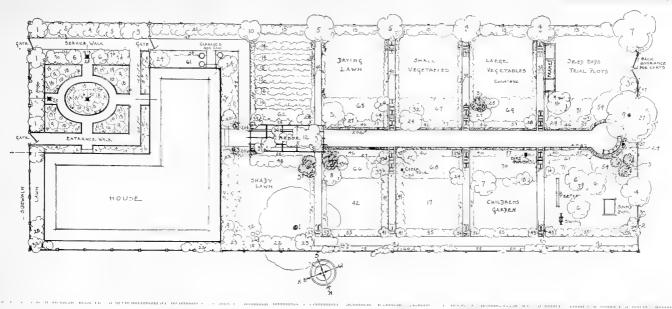
No formula can be laid down for making an old-fashioned garden. Every type of house, be it Spanish, Georgian Colonial, Pennsylvania stone, Long Island Dutch, or New England square, has its special problem, in the solution of which climate as well as architecture plays an important part that we must not overlook.

In Puritan times, to grow flowers for their beauty alone was held to be, if not a sin, at least a vanity. Nevertheless the busy housewife found moments in which to care for the little fenced-in plot before the house.

The authoritative list is short: crown imperials, daffodils, red and yellow tulips, poet's narcissus and



The Cavalier type, which was found in the Virginias, had a strongly formal spirit. It often included a parterre. The simplicity of the design and the neatness suggest the old Elizabethan gardens, their general source of inspiration



grape hyacinths, red peonies, purple and yellow iris, magenta phlox, Canterbury bells, scarlet lychnis or Maltese cross, and day lilies of blue and white comprise the list. Surrounding the flowers were always a few old shrubs-flowering almond in the place of honor under the window, and Peter's wreath, sweet shrub, flowering currant, snowberry and a few choice roses near by.

Such a mixture would hardly appeal to our ideals of beauty today, so many flowers of harmonious color and sentiment have been included in the plan for the front yard garden,

The Puritan garden and its planting plan given on this page represent the spirit of an age which demanded utility as well as an intimate touch of beauty

which is small enough to be taken care of by the housewife of today.

The tall flowers are grouped promiscuously in the centers of the beds with some attempt at balance of season, while mixed edgings of tiny plants, bulbs and fragrant herbs creep over the brick-edged paths. Oleanders in tubs provide a note of architectural dignity, hollyhocks stand in serried ranks against the house, hawthorns and sweetbriar shut off the street, and round about are other old shrubs and roses.

In the rear of this garden is a typical plot laid out as these orderly householders loved to have it. The general plan is informal in the extreme and at first glance seems irregular and disorderly. It was really very carefully planned, however. The beds were not laid out in shapes for their own sakes, but there is careful design in the sense that the garden as a whole served a useful purpose and each plant was placed in the location most favorable to its growth.

#### PLANTING LIST FOR THE FENCED-IN FRONT YARD

Note: Only the part of Plan 2 between lines A-A is included here

Note: Only the part of Plan 2 between lines A-A is included here.

SHRUBS AND VINES

1. Cratagus oxyacantha: English hawthorn, fragrant white flowers in May, red fruits.

2. Prunts Japonica, flore plene: double pink or white flowering almond, May.

3. Philadelphus peronarimon purple lilac, May.

4. Philadelphus peronarimon purple lilac, May.

5. Symphoricarpos racemesus; seroenry; white fruits, always found.

6. Spireas prunifolia: Peter's wreath; white, upright bush, May.

7. Old-fashioned roses.

A Rosa rubigliosa: eglantine or sweet-briar, single pink flowers, tall thorny bush.

B. Celestial rose: clear white, very sweet, loosely double.

C. Perpetual rose: delicate blush, blooms continuously, upright bush.

D. Tuscany rose: black-nurple, fading to dark crimson.

PERENNIALS AND ANNUALS

S. Chieranthus Chieri: wallflower, dark red, cream color, yellow and brown. May.

9. Peonies, pink and white as in list 2.

10. Iris as in lists 1 and 2.

11. Armeria marituma: thrift or sea gilliflower; pink, May. Dense foliage, useful for edgings.

12. Various small plants for edgings to be put two or three of a kind.

A. English daisy.

B. Pansies.

C. Johnny-Jump-Up.

D. Annual candytuit seeded where space occurs.

E. Scotch pinks, all around center bed and on corners.

F. Sweet violets

G. Lily-orthe-valley. In shade under shrubs.

H. Hosmarian ulgaris: creeping thyme.

J. Ruta graveolens: rue.

K. Lavandula vera: sweet laverder. These herbs to be put in hit or miss with flowers.

12. Valerian officinalis: garden heliotrope; pink, June.

Digitalis anpluar: foxglove; white, purple, pink, June.

13. Usalerian officinalis: chimney bell-flower; white and blue, July-August.

14. Althwa roses: hollyhock; single yellow, salmon and pink; massed against house; July.

Delphinium dinales: annual larkspur; blue, pink, white, all summer.

Delphinium hollonesis; fine foliage, very deep blue flowers, July.

Bolphinium sulphureum: light yellow, balf-shade.

19. Acontum Nagellus as in lists 1 and 2.

Acontum Nagellus as in lists 1 and 2.

BULBS 21.

A. B.

Tagetes patula: French marigolds; (annual) nil where space occurs.

Small bulbs used for edgings where room can be found.

A. Snowdrops, March and April.

B. Crocus suslanus: cloth-of-gold crocus, striped brown, March.

C. Jonquils, bright yellow, fragrant, May.

D. Grape hyacinths, blue and white.

E. Scilla festalis (nutans): Bluebell of England; drooping, bell-shaped; lavender, white or pink; tall stems; May-June.

F. Scilla autumnalis: autumn-squill, small starry rose flowers in clusters. July to Oct.

Narcissus van Sion, double daffodil, May.

Narcissus Pseudo-narcissus: trumpet daffodils, May. 23. Tulips as on other lists.

Lillum candidum: madonna lily; white, late June or July. 23. Oleanders in tubs.

## PLANTING LIST FOR THE PURITAN GARDEN List No. 5 On Plan 2. All except between lines A-A

TREES

1. Elm. to overhang shady lawn back of house.
2. Lombardy poplars, accents at far corner of lot.
2. Arborvine, for winter color and contrast with fruit blossoms.

FRUITS

4. Peach.
5. Plum; both placed where larger trees would shade beds too much.
6. Pear, tail when old, where children can climb them.
7. Cherry, near walk to grow tall and close in vista.
8. Apricot; planted for flowers, for it may not fruit in cold climate.
9. Apple, to overhang seat:
10. Quince, busk curs off visue of garden from service portion.
11. White mulberry, near birdhouse.
12. Grapes: Salem and Cate of feee, as they stand some shade.
13. Basterries; salem and Cate of feee, as they stand some shade.
14. Rasperries; 15. Googeberries.
16. Currants; berry plot screens service entrance from garden. 17. Strawberries, 18. Corylus Americana; hazel-nut, near children's plot.

SHRUBS AND ROSES

19. Azalea Vaseyi: soft pink, April. shade.
20. Box: (a) large, irregular specimens as accents on corners, and (b) old ragged dwarf edging box down center walk, collected from old place if possible.
21. Berberis vulgaris; common barberry or pepperidge; for jelly, near kitchen.
22. Syringa or mock orange, shade.
23. Lonicera Morrowi: bush honeysuckle, pink flowers, May, red fruit.
24. Lilac, common purple and white, tall to close in center vista.
25. Persian illac, medium to tall.
26. Flowering quince, common flaming red variety most old-fashioned.
27. Flowering almond, double pink and white, short to medium.
28. Flowering almond, double pink and white, short to medium.
29. Snowball, medium to tall.
29. Snowball, medium to tall.
30. Cornelian cherry, along back fence in shade. For early flower.
31. Smoke tree, closes in end of arbor.
32. Tamarix Gallica: tamarisk; small tree, feathery green with pink flowers.
33. Roses as in other lists.
4. Damask.
4. Damask.
5. Cinnamon.
6. Provence, red and white.
7. D. Scotch briar.
8. Moss, red, white, pink.
8. Wistaria Chinensis: purple wistaria, trained to rustic cedar pole.
84. Wistaria Chinensis: purple wistaria, trained to rustic cedar pole.
85. Police of the property of the pink flowers and fragrant.

Wistaria Chinensis: purple wistaria, trained to rustic cedar pole.

Akebia quinata: five-fingered akebia: delicately twining vine, fine leaves and fragrant chocolate flowers. Not on lists but seen in old Salem gardens.

Hululus lupulus: hop vine; (annual) good for immediate effect.

Lonicera sempervirens: coral honeysuckle; not on oldest lists but unlike old ones, purchaseable. Long scarlet flowers and thick glaucous leaves united at the base.

37. Lonicera sempervirens: coral honeysuckle; not on oldest lists but unlike old ones, purchers haseable. Long scarlet flowers and thick glaucous leaves united at the base.

HERBS
38. Mentha piperita: peppermint; needs a boxed in bed or it spreads.
Artemisia dracunculus: tarragon; useful for flavoring vinegar.
Allium Schænoprasum: chives; for salads and soups.
Saivla officinalis: sage; for meats and dressing.
Thymus vulgaris; creeping thyme; for flavoring.
Lavendula vera: sweet lavender, for linens, not hardy north.
Lippina citriodora: lemon verbena, for scenting linens; not hardy.
Nepeta catarls: catnip or catmint; soothing drink, cats fond of it.
VECETABLES
39. Cabbage used as a border in old gardens.
41. Farsley used to edge vegetable beds, as it also is today.
42. Asparagus, placed where the feather plumes will frame the lawn.
PERENNIALS
43. Bleeding-heart at corners of cross-walk.
44. Wild flowers in shade among ferns next lawn. Viola Canadensis and pubescens, tall white and yellow violets; foam flower, wild Sweet William, May-apple, Jack-in-the-pulpit, hepaticus, spring beauty (Claytonia), trillium, etc.
45. Pinks, as edge of one of the small walks.
46. Primulas, large yellow, in masses down entire length of center walk.
47. Lily-of-the-valley, in shade in front of shrubs.
48. Peonies, shady side of arbor next the lawn.
49. Iris as in other lists; also Queen Emma, pale gray with gold spot.
50. Funkia lancifolia: blue day lily; July to September; shady border.
51. Ferns next heuse in shade.
52. Foxflowes back of ferns.
53. Lemon lilies, accent in shade.
54. Hollyhocks, bold masses at end of center walk to frame seat.
55. Phlox as in other lists; also Pink Beauty, Elizabeth Campbell, Selma, Rynstrom.
56. Larkspur, as accent at end of cross-walk.
57. Late tulips, not literally the old-fashioned varieties but the best soft colors:

BULBS 57.

Annual as in other lists, also Timk peachy. Eladoctic Campberl, Senina. Rynstrom. Sarkspur, as accent at end of cross-walk.

Late tulips, not literally the old-fashioned varieties but the best soft colors; Clara Butt, Madame Krelage, Edmee, pink. Moonlight, Primrose Beauty, Retroflexa, yellow, Dream, Crepuscule, Rev. Ewbank, lavender.
Faust, La Tulipe Noire, dark maroon, etc., etc.
Poet's narcissus, in shade bordering walk under arbor.
Narcissus, larre yellow trumpet, in front of grapes.
Lilies as in other lists in front of grapes.
Lilies as in other lists in front of grapes.
Lilies as in other lists in front of grapes.
JALS
Cosmos, tall mass of feathery green to close in arbor.
Shell pink annual asters; not on old lists but must be had for cutting.
Coverin-A-Mist, delicate blue, with the pink asters. Seed in.
Bachelor's buttons, called corn-flower or blue bonnets; with the poppies,
Poppies, large double fringed white and pink. Also Shirley varieties; thin to 8".
Annual larkspur, sky blue.
Rose pink zimias, pull up all other colors. Not on oldest lists.
Stocks; soft pink, lavender dark reddish purple, canary color.
Calendulas, pale sulphur yellow.

60. ANNU

Fuchsias, rose geranium, small pink fairy lilies (Zephyranthes rosea). Agapanthus lily, (blue), oleanders, azaleas, etc. Standing in pots on edge of lawn.



## A GLACIAL GORGE ROCK GARDEN

Thirteen months before this photograph was taken the spot was a glacial morain—a bare field with many fine boulders scattered about. With a nice discernment for the natural beauty of rocks and water, the designer laid out this lily pond at one end and built up a cave of the winds where the breezes blow dancing wraiths of myriad colored misty spray. Rock plants are tucked away between boulders. From this pool the channel leads to two others, accorded a similar treatment. The garden is on the estate of George P. Mellick, Esq., at Plainfield, N. J. The landscape architect was C. W. Maredydd Harrison



Clipped barberry is used in the garden above to outline the formal grass walks, while a rb or vitae, sheared to perpendicular sides and flat top, forms an enclosing wall. Mary Rutherford Jay, landscape architect



The round plan, applied to a smaller garden, proves the adaptability of the circle in garden design. Here the paths are accented by being of gravel, and the entrances are marked by rose arches. Paul R. Allen, architect

THE CIRCLE IN GARDEN LAYOUT AS APPLIED TO TWO FORMAL DESIGNS

Covering an acre and a half in the heart of Cleveland, Ohio, is the garden of Francis A. Drury. Everything was brought there—trees, rocks, and the hills and slopes made. City water is used for the pools



## A NATURAL GARDEN IN THE HEART OF A CITY

VITALE, BRINCKERHOFF & GEIFFERT, Landscape Archive t



Aptly enough this garden is called "The Oasis". The planting is so arranged that the surrounding city is completely hidden and its noises lost in the transplanted woodland growth

Flowers are planted around the pools, giving an enrichment of color. Many of the shrubs are also flowering types and the garden lacks no natural interest of varied blossoms

It is difficult to imagine that these secluded steps have not been there since the beginning of time. The garden is an accomplish ment in the new school of lands caping the naturalistic

## THE GARDEN POSSIBILITIES of a CITY BACK YARD

Exploding the Theory that Pleasant Vistas and a Wealth of Bloom Are Restricted to the Broader Areas of Country Gardens—A Definite Planting Plan

THE city back yard is by no means the hopeless, dreary horticultural desert that one is led by pessimistic forecasts to believe. Whatever hopelessness enshrouds it is usually evolved from the attitude of mind of the owner or occupant of the particular back yard under consideration. If one takes the stand that the position is untenable and that nothing can be done, the probability is that nothing will be done; but if on the contrary there is a determined effort to "start something" then something is going to happen, and that something will doubtless bear results.

A city back yard is just so much land, just as an equal piece of land elsewhere is but a piece of land. The thing to do is to go to work and see what can be done with it. To be sure, the land is apt to be hard from lack of tilling, and is probably lacking in fertility; but both these objections can be overcome by thorough digging in the one case and the application of fertilizers—preferably well rotted barnyard manure—in the other.

Just what is to be undertaken in reclaiming a neglected back yard will depend entirely upon the tenure of occupancy. If the residence is a permanent home, then the yard may be laid out into walks, a bit of lawn, flower borders and shrubbery; for even a two-by-four-rod lot will afford room for a generous planting and such garden accessories as one may desire. But if the home is merely temporary, then not much

in the way of permanent improvements will be undertaken; yet the yard may be made charming by the use of bedding plants, annual flowers and vines sensibly arranged.

The first thing to undertake will be a thorough cleaning up of the ground, removing everything that is not actually necessary and making the ground as smooth and presentable as possible. The next thing in order will be hiding the division fences and any outbuildings that exist with vines or tall growing annuals. Narrow beds dug along the fences on either side may be planted with vines of quick growth, and such summer bedding plants and tall annuals as cannas, cosmos, ricinus, and the like may be used to mask the rear fence. These are all plants which may be started in the house from roots and seeds and planted out when the weather is suitable.

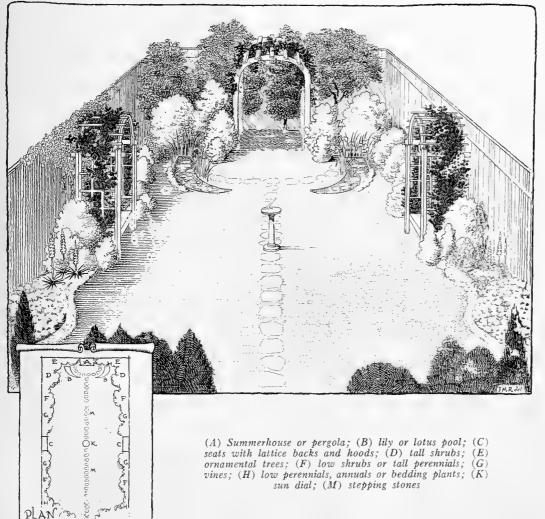
Usually it is preferable to leave the center of the lot open, seeding down the ground to grass for a bit of lawn; but this is hardly practicable in the temporary home. As a bare expanse of earth is anything but attractive, it will be better to put this part of the lot into flower beds, using low growing annuals or bedding plants and leaving broad walks around this miniature garden. This with the border beneath the fences will cover the lot so that only the paths remain, and if these can be covered with sand or gravel or even sifted coal ashes the result will be entirely satisfactory.

An even better arrangement than the vines growing up the fences would be the erection of boxes on top of the fences filled with trailing vines, such as nasturtiums or other gay-flowering vines. The boxes may contain upright plants as well-just the sort of planting that one makes in porch or window boxes, only on a somewhat larger scale. The expense for this sort of work need not be great, as rough wooden boxes will answer quite as well as more costly ones. The long boxes in which curtain poles are sometimes shipped are just the right thing and can be purchased for about twenty-five cents each at the dry goods or furniture stores. They need only filling with good soil to be ready for the reception of such plants as one may elect to use. If the fence has a flat board on top, the boxes may be set directly on it, but if no top rail is present the boxes are easily adjusted by means of wooden brackets attached to the fence posts.

Where the boxes are adopted instead of planting vines at the foot of the fence, then scarlet salvia, white feverfew, camphor geraniums, nicotiana, asters, stocks and the like may lift their bright heads from the ground to meet the down trailing vines. Petunias, verbenas, sweet alyssum and ageratum may be used as an edging, and the whole will furnish a wealth of bloom from early summer to frost.

Taller growing annuals may be banked about the base of the house and the rear entrance steps. Erect a trellis of wire above the entrance and cover this with Japanese morning glories, Cobæa scandens, passion vines and similar free blooming vines. On top of the balustrade and in all the rear windows place boxes of bright flowers. If a continuous succession of boxes along the entire fence seems too great an undertaking, they may be separated by a few feet and the spaces between filled with some not too rank growing vine planted beneath the fence; or a tall growing plant may be utilized to fill the opening and relieve the monotony of a too level planting beneath. Then if one is faithful with the watering hose, zealous in training the growth of vines and plants, and will gather flowers before they fade and keep the plants free from insect pests, there will be no call to despise the city back yard.

The permanent back yard, however, should have as its chief charm a stretch of velvety green sod, well trimmed and shaved, and the flowers should be merely the framework and adornment of its beauty. A broad cement or graveled path, or one with stepping stones down its center, broadening midway of its length into a circle enclosing an artificial pool for lilies and goldfish and with garden seats at each side, may be the chief feature of this part of the yard. Mass planting of tall growing perennials and shrubs may serve as a screen for an enclosing fence or undesirable view. shrubs and ornamental trees may close the vista in the rear, and a little tea house or pergola makes a shady retreat at the end of the path. Stepping stones give a quaint and old-time flavor to a garden, but they must be set low enough to allow the lawn mower to pass freely over them. Walks of red brick, especially where the enclosing walls are of brick, are charming. Seats of red cement may be used with them, or wooden ones painted green.



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# A CITY BACKYARD GARDEN

RUTH DEAN Landscape Archiver

Behind the here a space about 8' wide is paved and covered with tribles, for ming a shady ear. Witharm and wild grape elimb the trells and wy is mithe window box Opposite is a wall countain.









Seated in this pergola one gets a vista of the long shrubbery border to the north, the grass walk and balustrades

The CITY GARDEN of G. F. VAN SLYCK

at

ST. PAUL, MINNESOTA

The view from the house shows the disposition of the beds. At regular intervals evergreen specimens are used for accent points. Bluestone paths wind in and out between the beds to the stretch of lawn beyond. The grassed terrace in the foreground serves for an outdoor dining room in pleasant weather





### A POOL FOR EVERY GARDEN

Mid immer, and the cone of water ound most reporter, in a garden trickle and one to be three set (i.e., e., l. t. day and into the non-disks. Every circlen heald have some ato. It no broad is at analysis, build a food. It cut held is then like. Gold'n hean set on it dim shallows. Birds will come

there to bathe and sun themselves on its rim. All day long it will mirror the sky and at night eatch the spackle of stars. Even a little pool with do this, a little pool such as the one on the place of Ormsly M. Mitchell at Rye, X. Y. The architect was Mott Schmidt. Mrs. Ellen Shipman, landscape architect

#### SCULPTURE FOR AMERICAN GARDENS AMERICAN

An Infant Art That is Worth Fostering

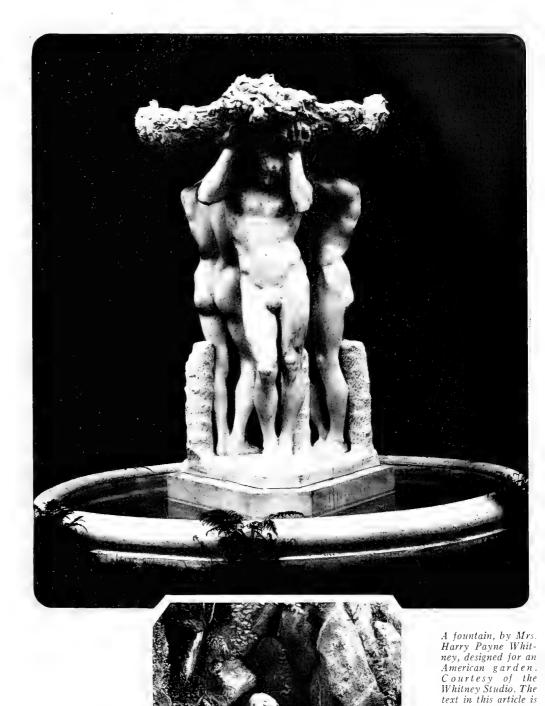
IF sculpture is to be really acclimated in our American gardens it must be indigenous, of a kind that the average citizen can understand. It must be made to look at home in the average American place. It must be treated, not as an outstanding object of art dominating everything in sight, but as symbolizing the spirit of the place, of the flowers and leafage, an integral part of the picture. Such statuary will not be too conspicuous, and is more likely to be of bronze or lead than of marble. It will be more difficult to set especially where the composition is entirely informal, if there are no places contrived for sculpture to fill. Statuary in such surroundings is apt to look as though it had strayed in by mistake or had been casually dropped, as it does in most of our parks.

The important fact underlying this problem of finding the right place, whether in an architectural garden or a commuter's yard, is that the setting ought to be designed as well as the statue. It is not sufficient to give thought to the sculpture; it is necessary to give serious thought to the place where it is to go. If there is no fit and proper place for it, no niche in which it will naturally belong, no scene of inevitable fitness, one must be made. statue should seem as much at home as a dryad stepping out of the tree in which she lived, or the spirit of the cave or the waterfall.

When the question of putting statuary in a small place arises, the first consideration should be, not "Is it good sculpture in itself, that I happen to like for its own sake?" but, "Is it the kind that harmonizes with its surroundings? Is there any kind of sympathy, obvious or subtle, between the sculptor's thought and the lives and loves and aspirations of those who live with it, or is it as remote from them as the Group of the Laocoon?"

Or to put the same idea in a different way, "Was the sculptor thinking of an American





"A Girl Aquaplaning," by Rena Tucker Kohlman, shows the freedom of interpre-tation characteristic of our American gar-den sculpture. It stands 20" high and is intended for a basin fountain or a small garden pool where the water could be arranged to spray against the figure. Courtesy of the Milch Galleries

In the cieft of a rock garden you discover a young Pan piping away. The gray stones are immediately animated and the rock plants vitalized. This figure by Janet Scud-der is in the Rockefeller gardens at Po-cantico Hills and shows the proper placing for such work—secluded and surprising as you come upon it

prepared by Harold Caparn,

scape architect

land-

yard with trees, bushes, grass and flowers, or was he trying merely to express in human shape his sense of beauty, or strength or speed? Was he trying to personify some abstract idea, or to make a figure which would emphasize and vivify the lines of some building.

It is fortunate that many sculptors are two work in the spirit of the ancients in so the serving to express the sentiment of their times, the ideas with which they are most familiar. As a consequence, instead of making fauns or Miner vas, they are modeling modern men, women and



"Girl and Fish," a garden figure of happy interpretation, could find a place in a garden pool sprayed as a fountain base or in a stream of rushing water. Harriet Whitney Frish muth, sculptor. Courtesy of Gorham Gallery





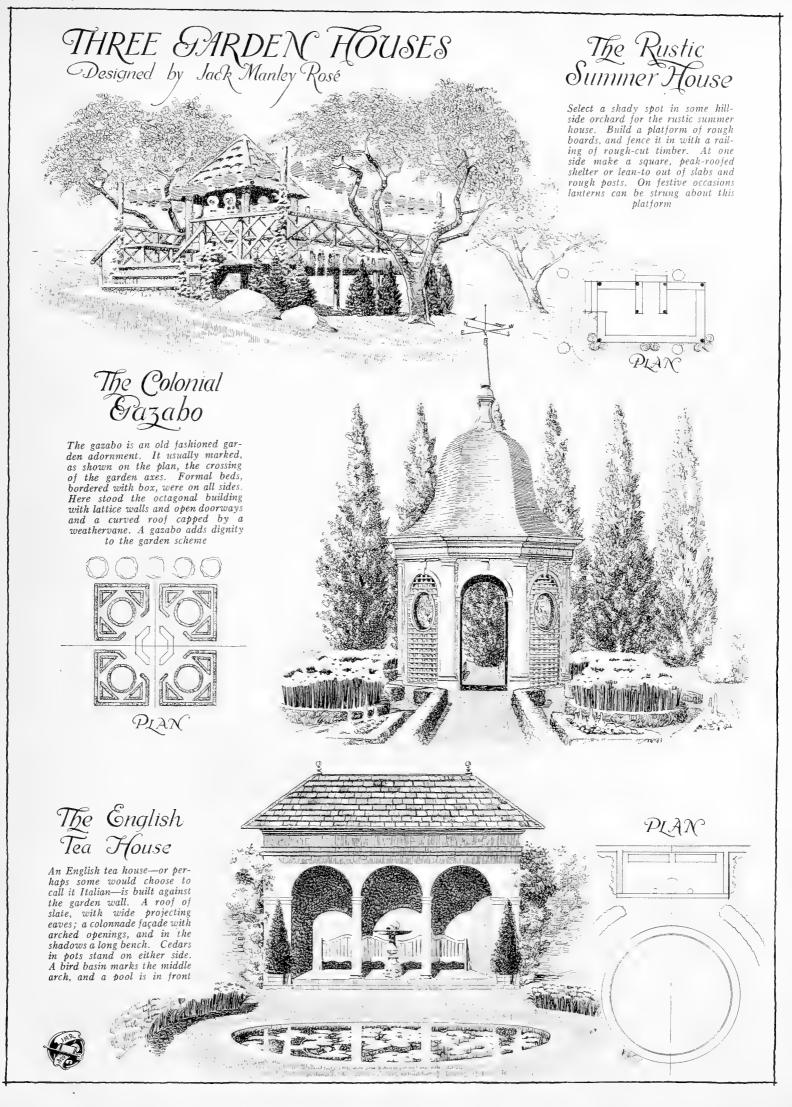
children with such poetic atmosphere as they are able to give them. Many fountains, sundials and other garden objects are designed with the human motive by artists honestly trying to find the true and harmonious note. We have Yankee boys, children, dogs, rabbits, frogs, birds and so on in sculpture. It looks as though in time our garden sculptors would build up a mythology of their own invention.

Silhouetted against the sky and surmounting the garden pool stands young Diana, a clear-cut gem of garden statuary. It is by Janet Scudder and is in the garden of J. L. Severance, Cleveland, Ohio



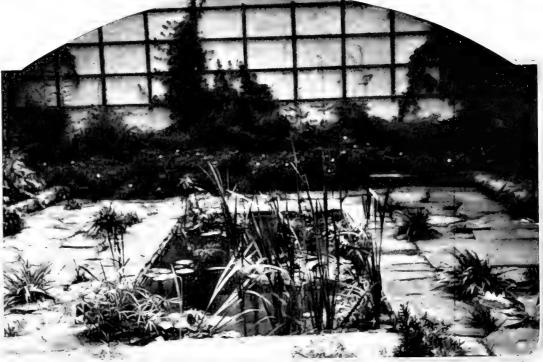
The sundial offers a wide and varied field of interpretation. This figure, "The Fruit Bearer," by Edward McCartan, has found a sunny spot in the garden of Mrs. Harold I. Pratt, at Glen Cove, L. I. Courtesy of Gorham Gallery

These figures—Morning, Noon and Night—support the table of this sundial in the garden of John Long Severance, Cleveland, Ohio. Harriet Whitney Frishmuth was the sculptor. Courtesy of Gorham Gallery





That stream is the most charming along whose banks one can wander at will, and that pool the most enticing which offers the same opportunity for close companionship with water. The stone margins are alluring pathways between the iris rows here in the Borden garden, where because of the flowing current through the pool the planting is of flowers with sheath-like foliage



The courtyard pool can transform an uninteresting flagged floor into a place of beauty and unique charm. Simplicity of treatment should be maintained throughout—even the rim of the pool needs no elaboration. In the pool can be planted water-lilies, rushes and cyperus, as here at the home of Mr. and Mrs. Gordon K. Ball, Katonah, N. V. These will lend variety of color, form and size. Openings here and there among the flags can be filled with hardy foliage plants, or small flowering ones such as dwarf phlox. The background as well as the pool should be carefully planned. Heavy massing of foliage is needed there to carry the sturdiness of the court itself. Flowering shrubs are used in this case, with climbing vines behind them. Marian C. Coffin, Landscape Architect



The formal pool invariably calls for a formal setting. Here the wide concrete coping forms an integral and important part of the design

## POOLS TO MIRROR THE SKY

Will Supply that Water Feature Which, Provided It Is in Keeping, Will Add to the Beauty of Any Place

AND when you have left the desert, and come again to the fresh green of the river valleys, the last thing to which you grow accustomed is the sound of running water."

The last thing and, it might be added, the most welcome and soothing and wholly refreshing thing. In the glaring heat of the cactus country one misses keenly the softening effect of water in the landscape. By day, at least, the desert lacks intimacy, and when the reason is

analyzed it is found to lie largely in the absence of flowing streams. For whether in Nature's gardens or in our own small imitations of her handiwork, water as a purely esthetic feature fills a place which no other one element can hope to attain.

There is no need here to dwell upon this humanizing influence of water in our gardens—our interest is centered rather on how it can be brought to serve our needs. The running brook admits of the greatest variety of effects, perhaps, but for comparatively few of our gardens is it available. Most of us must of necessity turn to the various forms of pools and pond-like water gardens. In the planning, making and care of these are certain well-ordered rules.

Broadly speaking, there are two kinds of water features: the formal

and the naturalistic. The first may take one of several forms, such as the fountain basin pure and simple; the lily pool of regular contour, round, oval or rectangular, placed usually at the intersection of the garden axes; and the geometrically accurate pool whose primary purpose as a mirror of the surrounding trees and architectural features is served without the use of any water plants.

It is not the purpose here to take up in any



A cross-section of the concrete-lined pool shows the sloping arrangement of the soil and the partitions to hold it in place

detail the subject of garden fountains and their accessories, as these fully deserve an article all to themselves. Today one can find in the open market all manner of fountain designs especially executed for garden use, and the only confronting problem is the selection of that one of them which will harmonize best with the planting scheme in general, and the exact location in particular.

All of these fountains, of course, have one

point in common: they call for a source of supply which has enough force to cause the water to flow from the opening provided for it. Provision must also be made to carry off the surplus water when the fountain is in operation. In some cases this overflow can be utilized to form a little rill which wanders away through the garden, fringed with ferns and cardinal flowers in the shady spots and in the sunlight bright with the blue of forget-me-nots catching the color of the sky. Or it may be led to a bird pool in some secluded corner.

In the great majority of pools some provision must be made for replenishing or changing the water, usually by simple inlet and outlet pipes, as suggested above. Much can be done to keep the water free from mosquito larvæ by introducing a few goldfish.

## LANDSCAPE PLANS for the SMALL PLACE

Good Planting Effects Do Not Necessarily Entail Large Expenditures, as These Two Schemes Serve to Demonstrate

PLANNING, building and framing a home may be likened to creating, in a small way, a new heaven and a new earth. Especially is this the case with respect to the garden, the magic circle about the home.

Many an owner who has spared no expense on the house itself snaps the bands of his pocketbook at the mere mention of beautifying the lot; yet the setting should be worthy the jewel. He is not stingy; he is simply unaware of the latent possibilities with which his plot of ground teems; that the initial outlay will return in enjoyment a larger dividend than that derivable from a like amount ventured commercially. It is not so much a matter of money as of intelligent and welldirected effort.

Two problems are presented in this article, which in each case represent actual conditions.

The ideal manner of procedure is to plan the house and grounds simultaneously. But the usual way is to purchase a lot, build a house on it and let the grounds take care of themselves.

In plan No. 1 is a house on a lot 60' by 120', and typical of the suburbs of a large city. As the house is placed, the garage, driveway and service entrance face the north. The obviously best arrangement is a simple lawn at the rear which will serve as play space for the children, drying yard upon occasion, or a flower garden if desired.

Since expense must be considered, all but the roughest work in making a garden should be done by the owners themselves. Here let me emphasize the importance of thorough soil preparation: Remove all gravelly subsoil to a depth of 8" for grass, 18" for shrubs, and 2' for flowers. Indeed, the entire area should be prepared-rather than holes dug for each individual plantby filling in with good loam with which is incorporated one-fourth its bulk of well-rotted manure. It is a waste of money and effort to put plants into poorly prepared soil.

The back fence is constructed of 6' by 6" posts strung with woven wire, and 2 = 2 =

Plan No. 1 is for a lot 60' x 120', the type generally found in suburban localities. The scheme for its development and for the development of the property on page 49 was designed by Elizabeth Leonard Strang, landscape architect, who also contributes the text

with a board along the bottom. It is entirely screened by vines. In front of it are a number of Lombardy poplars which help to secure privacy until such time as the shrubs attain the height of the fence.

For these shrubs, in the spring, there is the vivid yellow of forsythia, flowering cherry and crab, choice hybrid lilacs, deutzia and peonies, fragrant mock orange and lemon lily. In summer are roses, tall white daisies, a maple for shade, and a plum tree for fruit. In the train of autumn come the snowberry, high bush cranberry, scarlet thorn, and red hips of the Japanese rose. There is also the vivid red foliage of Japanese barberry, sumac and Virginia creeper; the rich bronze of Viburnum tomentosum, and the white flowering mass of Clematis paniculata. With winter come the fruits of the barberry and thorn, the orangescarlet of the bittersweet and the green of The latter also relieves the the evonymus. barrenness of the north side of the house. Here a hedge of unclipped Regel's privet separates the driveway from the adjoining lot.

The front of the house looks particularly well in winter. Here are some arborvitae, and an edging of prostrate juniper. Against this green background in spring, the saffron of the crocus, the forsythia and daffodils, with a few porcelain blue hyacinths, look radiantly gay. This effect is succeeded by a combination of white Spiraea Van Houtteii, yellow iris, and lavender Darwin tulips. During midsummer it remains a restful green, to be enlivened in the autumn by the gold and white of Japanese anemones.

The flower border at the side of the porch is made up of forget-me-nots, English daisies, and early pink tulips, followed by pink peonies and spirea, iris of violet and purple and lavender-blue, and May-flowering tulips of pink and primrose. In June, early pink phlox l'Evenement contrasts with the larkspur. Grapes shade the porch in late summer and in the border are purple and gold helenium, pink Japanese anemones, and vellow button chrysanthemum.

#### PLANTING LIST FOR -P L A NNo. 1

#### EVERGREENS

- INDEX

  1. Thuya occidentalis, American arborvitæ, I plant, 3'-3½'.

  2. Thuya occidentalis var. Vervoeneana, arborvitæ, Compact, heids color in winter. 1 plant, 1½-2' high.

  3. Thuya occidentalis var. blobas, Globe arborvitæ. 2 plants, 12" high.

  4. Juniperus horizontalis, dwarf juniper. 10 plants, 1½'-2'.

  DECIDUOUS TREES

  5. Accr platanoides, Norway maple. 3 plants, 8'-10' high.

  6. Populus mara var. Halica, Lombardy popular. Screen to be removed as shrubs grow. 7 plants, 9'-11' high.

  7. Plum tree (or other fruit), var. Abundance. Large amber fruit. 1 plant, 4'-5' high.

  8. Prunus Japonica florepleno, double rose-flowered cherry. 1 plant, 3'-4' high.

  9. Malus floribunda, flowering crab. Carmine buds opening to white, single. 1 plant, 3'-4' high.

  10. Crataegus coccinea, nativo scarlet thorn. Red fruit in autumn. 1 plant, 3'-4' high.

#### DECIDUOUS SHRUBS

- 11. Viburium opulus, high bush cranberry.

  large red fruit autumn and winter.
  12. Viburium tomentosum, Japanese snowball.

  sutumn protect in exposed situation 3 plants, 2'-3'.

  13. Rhus glabra, sunac. Vivid autumn red. 4 plants, 2'-3'.

  14. Philadelphus conoraius, fragrant mock orange. 6 flowers in June. 4 plants, 3'-4' high.

  15. Forsythio Fortuneti, Golden bell. 2 plants, 3'-4' high.

  16. Leonumus alnta, corky-barked evonymus. Vivid autumn red. pendant pink fruits. 3 plants, 4'-5' high.

  17. Spurce a Van Houten, Van Houte's spires. White mass, forms good background for Barwin tulips or iris. 3 plants, 2'-3' high.

  18. Spurce a Van Houten, Van Houte's spires, White mass, forms good background for Barwin tulips or iris. 3 plants, 2'-3' high; (B) President Grevy, bluish lilac. I plant, 2'-3' high; (B) Marre le Graye, large single white, I plant, 2'-3' high; (B) Marre le Graye, large single white, I plant, 2'-3' high; (B) Springa Persica, Per-

- Stan lilac, 1 plant, 2½'-3½' high.

  19. Berberts Thunbergit, Japanese barberty.

  10 plants, 1½'-2' high.

  20. Symphonicarpos racemosus, snowberty. Small shrub, good green-white fruit in autumn. 3 plants, 2'-3' high.

  21. Ligustrum Boda, var. Regelianum, Regel's privet. A graceful unclipped hedge, 2 apart. 50 plants, 18"-24".

  22. Rose, Harrison's Yellow. Old-fashioned double yellow rose, blooms with larkspur. 1 plant, 3' high.

  23. Rosa runosa alba, white Japanese rose. Large red fruits in autumn. 4 plants, 1½'-2' high.

  24. Deatem Lemoinei, hybrid deutzia. Smaller than spirea, good white background as well. 4 plants, 2'-2½' high.

  25. Eronymus radicons, climbing evergreen evonymus. 14 plants, 3 years old.

  26. Ampelopasi Veitchii, Boston ivy. 2 plants, 3 years old.

  27. Anteologisis Veitchii, Boston ivy. 2 plants, 3 years old.

  28. Actinida arguta, sliver vine. Dark green foliage, very dense, 2 plants, 3 years old.

  29. Aristolochia Sipho, Dutchman's pipe. Immense green leaves, heavy growth, 2 plants, 2 years old.

  30. Celastrus scandens, bittersweet. Scarlet and orange winter fruits. 3 plants, 2 years old.

  31. Clematis paniculata, Japanese Virgin's bower. Mantle of small white flowers in autumn. 1 plant 2 years old.

  32. Lonicera Halliana, Hall's evergreen honeysuckle. Fragrant flowers, practically evergreen. 2 plants, 3 years old.

  33. Grapes: Catawba, small red, very sweet; Salem, large red.

  24. Daviscually evergreen. 2 plants, 3 years old.

  34. Crocus, Mammoth Golden Yellow. 50 bulbs.

  35. Hyacinth, porcelain blue. 6 bulbs.

  36. Narclessus, large yellow trumpet, mixed. 100 bulbs.

  37. Early tulips. Cottage Maid, pink. 75 bulbs.

  38. Darwin tulips. (A) Reverence Ewbank Lavender. 18 bulbs; (B) Moonlight, luminous yellow globes, 25 bulbs; (C)

- Clara Butt, salmon pink, 25 bulbs.

  PERENNIALS (Spring)

  39. Myosotis alpostris, Blue forget-me-not. 15 plants, 8" apart.
  40. Bellis perennis, English daisy. Pink and white. 15 plants, 8" apart.
  41. Iris Germanica, German iris. 12" apart. (A) Johan Dewitt, standards violet, falls purple, 10 plants; (B) Darlus, standards velow, falls liac, 10 plants; (B) Darlus, and plants, 12" apart.
  42. Spiraca Chinensis, pink herbaceous spirea. 5 plants, 18" apart.

  PERENNIALS (Summer)
- PERENNIALS (Summer)

- apart.

  PERENNIALS (Summer)

  43. Peony varieties. (A) Festira maxima, large double white, fleeked crimson; (B) Areos, single rose pink, 3 plants; (C) Albylroa, white single, golden stamens, 4 plants.

  44. Hemerocallis flaca, early lemon lily. Blooms with mock orange. 10 plants, 15" apart.

  45. Delphinaum, Gold Medal hybrids, larkspur, in tones of blue. 10 plants, 15" apart.

  46. Phlox varieties, 15" apart. (A) L'Evenement early pink, with the larkspur, 5 plants; (B) Elizabeth Campbell, salmon overlaid pink, 10 plants; (C) Jeanne d'Arc, late-flowering, pure white.

  47. Chrysanthenum uliginosum, Giant dalsy. Individual flowers like Shasta daisy, in tall clusters. 5 plants; 18" apart.

  48. Anemone Japonica, Japanese anemone. 12" apart. (A) White. 15 plants; (B) Pink 30 plants.

  49. Aster Norce-Angliae, royal purple. New England aster. Tall, vigorous. 10 plants, 12" apart.

  50. Helenium autumnale, sneezeweel. Tall, showy, the most glorious autumn yellow, 20 plants, 12" apart.

  51. Hardy chrysanthenum. Small yellow button variety. 6 plants, 12" apart.

  52. Cosmos. Early pink and white. 6 plants, 2" apart.

  53. Calendulas. Sulphur yellow. 12 plants, 12" apart.

  54. Ageratum. Light blue. 24 plants, 3" apart.

Plan No. 2 is adaptable to almost any lot or house The land plan. drops abruptly away at the back, affording an opportunity for a garage and billiard room in the basement. From windows above, one gets the effect of a sunken garden, its square, formal shape seeming to belong to the English style of brick house. The walks are of grass; the hedge of clipped privet; the benches simple home-made ones of wood; the bird basin in the center a square pedestal of brick with shallow concrete basin. The circular seat at the end may be constructed at home of

SCALE IN FEET 120 brick and concrete, or one of the better type of white wood garden seats arched with an arbor of wrought iron and netting.

No. 2 is adaptable to almost any lot or house plan

Elizabethan gardens, the beds should be a mass of color from earliest spring until late fall.

In spring the hemlock, red maple blossoms, tender green of the larch, misty yellow of the spice bush, scarlet Japanese quince and snowy amelanchier outside the hedge, bid a fair morning to the narcissus, early tulips, grape hyacinths and arabis within.

The procession never halts. Presently come white lilacs, flowering crab, wistaria, the whole splashed by the delicate tints of the Darwin tulips. Here are iris, columbine, lilac-blue Phlox divaricata;

Sweet William, foxglove and peonies; helenium and light blue asters; and last the showy yellow chrysanthemums.

Across the front of the house dwarf evergreens and vines are used sparingly, because, owing to the low foundation, too much planting would ruin the effect. The lawn in front is framed by an apple tree, two specimens of Cercidiphyllum, white fringe, spirea, forsythia and barberry.

Two buckthorns meet over the service walk, and a tall hedge of unclipped privet successfully conceals the drying yard at the side.

#### 2 PLANTING LIST FOR Νо. PLAN

#### EVERGREENS

INDEX
1. Tsugo canadensis, American hemlock. 1 plant, 4'-4'/2' high.

The garden is joined to the house by unclipped overhanging branches of privet. Since

the living room windows are so far above, there

can be no entrance from the house on the main axis, but a flight of stairs from the main floor

Within the garden, a walk separates the

beds from the hedge, planned thus from the

purely utilitarian purpose of keeping its roots from robbing the flowers. Like the pictured

leads down to a garden door.

- 2. Lasix Europaea, European larch. 1 plant, 5'-6' high
- Pinus montana, var. Mughus, Mugho pine, dwarf. 6 plants, 12"-15" high.
- 4. Leucothoe Cateshei, l'ily-of-the-valley shrub. Broad leaved evergreen, small white flowers. 2 plants, 1'-1½' high.

#### DECIDUOUS TREES

- Acer saccharum, sugar maple. Larger than Norway maple.
   9 plants, 8'-10' high.
- 9 plants, 8'-10' high.
  6. Acer rubrum, red maple. 1 plant, 6'-8' high.
  7. Apple. 1 plant, 5'-6' high. Alternative choice: Northern Spy, red winter variety; Rhode Island Greening, large winter variety; Fameuse or snow apple, handsome red autumn variety.

- autumn variety.

  8. Peach, 2 plants, 4'-5' high. Crawford's Early, yellow freestone, August; Elberta, later yellow.

  9. Cherry, 2 plants, 4'-5' high. Black Tartarian ox-heart; Yellow Spanish.

  10. Quince, Champion. Large yellow. 1 plant, 4'-5' high. 11. Ceridiphyllum japonicum, handsome specimen trees, gray bark, smooth leaves, purplish when young. 2 plants, 4'-6' high.
- 4'-6' high.

  12. Malus Ionensis var. Bechtelli, double pink flowering crab, very fragrant. 1 plant, 3'-4' high.

  13. Malus Scheideckeri, double flowering crab, shapely habit, rose color. 1 plant 3'-4' high.

  14. Rhamnus cathartica. 2 plants, 2\(\frac{1}{2}'-3\frac{1}{2}'\) high.

#### DECIDUOUS SHRUBS

- nelanchier canadensis, shad bush. Very early white flowers, edible fruit in June eaten by birds. 5 plants, 2'-3' high, 4' apart.
- 16. Benzoin aestivale, spice bush. Very early yellow flowers.
  3 plants, 2'-3' high, 4' apart.
  17. Forenthia intermedia, golden bell. 10 plants, 3'-4' high, 3' apart.
- Chionanthus Virginica, white fringe. Flowers in May. foliage good. 1 plant, 2'-3' high.
- age good. 1 piant, 2'-3' nigh.

  19. Ligustrum Ibote, hardy Japanese privet. Unclipped, 26 plants, 4'-5' high, 3' apart; clipped for hedge, 54 plants, 2'-3' high, 2' apart.

  20. Viburum opulus, high bush cranberry. 4 plants, 3'-4' high, 4' apart.
- 21. Cydonia japonica, Japan quince. Select some of the pink hybrids if scarlet is not desired. 4 plants. 2'-3' h g., 3' apart.

- 22. Spiroca Van Houttei, Van Houtte's spirea. 9 plants. 2'-3' high, 3' apart.
- Eronymus alatus, cork-barked evonymus. 3 plants, 2'-3' high, 4' apart
- 24. Philadelphus grandiflorus, the tallest variety of mock orange. 4 plants, 3'-4' high, 4' apart.
- Syringa rulgaris, var. alba, common white lilac. Grows taller than the purple. 8 plants, 2'-3' high, 4' apart.
- 26. Ribes aureum, flowering currant. Early, intensely fragrant yellow flowers. 6 plants 2'-3' high, 3' apart.
- 27. Rosa rugosa, var. Blanche de Coubert, double white Japanese rose. 20 plants 1½'-2' high, 2' apart.
- 28. Berberis Thunbergii, Japanese barberry. Unclipped in masses. 17 plants, 1½'-2' high, 2' apart.

#### VINES

- 29. Evonymus radicans, climbing evergreen evonymus. Clings to brick. 8 plants, 3 years old,
- 30. Schizofragma hydrangeoides, climbing hydrangea. Clings to brick and stone. 6 plants, 2 years old.
- 31. Ampelopsis heterophylla, turquoise vine. Exquisite blue and purple berries, grape-like leaf. 3 plants, 2 years old.
- 32. Ampelopsis Veitchii, Boston ivy. 8 plants, 2 years old.
- 33. Lonicera Halliana, Hall's honeysuckle. 2 plants, 3 years old.
- 34. Climbing rose, Silver Moon. Large single white. 8 plants, 4" pot.
- 35. Grape. Moore's Early. Large blue variety. 3 plants, 2 years old, 8' apart.
- 36. Wisturia Chinensis, purple wistaria. 2 plants, 4 years old. 37. Celastrus scandens, bittersweet. 2 plants, 2 years old.

#### BULBS (Spring)

- 33. Crocus Mammoth Golden Yellow. Among evergreens across front of house. 200 bulbs.
  39. Muscari botryoides, blue grape hyacinth. In flower garden at foot of hedge. 200 bulbs.
  40. Narcissus Sir Watkin, large yellow trumpet. 100 bulbs.

- 41. Early tulips. (A) Duke of Albany, very early pink, 50 bulbs around circle back of arabis and nepets; (B) Princess Wilhelmina, deeper pink, 50 bulbs around peonies; (C) Goldfinch, pure yellow, 50 bulbs near Japanese iris.
- 42. Darwin tulips. Selected varieties of lavender, rose and pink, 100 bulbs near outer corners of beds.

#### PERENNIALS (Spring)

- 43. Arabis alpina, white rock cress. 40 plants, 12" apart.
  44. Alpssum saxatile, Golden tuft. Vivid yellow for accents.
  8 plants.
- 45. Iris pallida, large porcelain blue iris. 40 plants, 12" apart.
- Dicksonia punctiloba, hay-scented fern.
   18 plants, 12" apart.
- 47. Aquilegia hybrids, hybrid columbines. Pink and cream. 20 plants, 12" apart.
- 48. Phlox divaricata, wild Sweet William. Large, fragrant, lilac-blue. 15 plants, 12" apart.

#### PERENNIALS (Summer)

- 49. Heuchera sanginea, coral bells. Small red flowers on slender red stems, bloom all summer, leaves evergreen. 15 plants, 12" apart.
  50. Digitalis glorinectora, foxgloves. Mixed carmine pink and white. 55 plants, 12" apart.
  51. Dianthus barbatus, white Sweet William. Take up after blooming and replace with pink verbenas. 80 plants, 8" apart.
- Paconia, var. rosea elegans, peony. Double rose, creamy center. 4 specimen plants.
- Papaver orientale, red Oriental poppy. 25 plants, 15" apart.

- apart.

  54. Nepeta Mussini, mint. Mauve flowers, gray leaves, excellent for edging. 15 plants, 12" apart.

  55. Delphinium hybrids, larkspur. 32 plants, 18" apart.

  56. Oenothera Missouriensis, Missouri primrose. Large solutary yellow flowers useful as accents. 6 plants, 12" apart.

  57. Funkia lanceolata, lavender day lily. Late, blooms in September. 15 plants, 12" apart.

  58. Anthemis tinetoria, chamomile. Yellow daisy, lasts all summer. 12 plants, 18" apart.

  59. Iris Kaempferi, Japanese iris. Lavender. 25 plants, 12" apart.

  60. Phloy varieties. 15" apart. (A) Jeanne d'Arc. late nure
- apart.

  60. Philox varieties. 15" apart. (A) Jeanne d'Arc, late pure white, 40 plants; (B) R. P. Struthers, vivid coral red. 20 plants; (C) F. G. von Lassburg, large white, 10 plants.

#### PERENNIALS (Autumn)

- 61. Helenium autumnale, yellow sneezeweed. 12 plants, 12" apart.
  62. Aster Feltham Blue. Medium height, large masses porcelain blue flowers. 40 plants, 1' apart.
  63. Hardy chrysanthemums, aster-flowered variety Etoile d'Or, vivid yellow. 40 plants, 12" apart.



HOW
DO YOU ENTER
YOUR GARDEN?

Six Suggestions for Garden Gates



The garden gate of wide wooden planks can be elaborated with wrought iron strap hinges in character with the architectural design of the wall and the decorations upon it

If the garden is walled, the gate can be of solid planks bolted together, which will be in keeping with the rugged character of the brick wall. John Russell Pope, architect



(Below) Set between brick posts is a rounded arch wooden gate with open, decorative punels on each ide. The Colonial character is in keeping with the posts



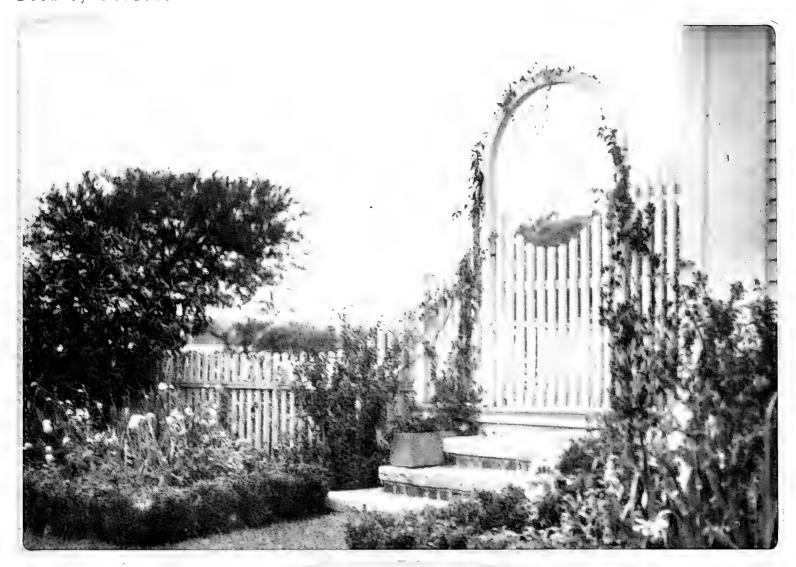




A wrought iron gate affords a glimpse of the garden beyond Its design is simple

(Right) Finally one can have a frame built up in the English fashion with an arched top





If one is fortunate enough to have an old house or a new house in the old style, she can use an arched garden gate, such as this on the place of Mr. and Mrs. Vivian Spencer at Avondale, R. I. And she can plant along the fence a box or box - barberry edged border filled with heliotrope, lavender phlox and pink scabiosa mingled with lilies and purple gladioli



On this same placethe door-way garden is planted with a freedom reminiscent of English cottage gardens. There are annuals growing in tangled masses — yellow and orange calendulas, flame-colored snapdragons, richly tinted zinnias and bronzedahlias — all intermingled, with here and there an enlivening touch of violet blue Salvia farinacea

FLOWERS for the GARDEN GATE--TWO PLANTING SUGGESTIONS for SIMPLE PLACES

MARIAN C. COFFIN, Landscape Architec

## STONE AND THE GARDEN PATH

Paved Walks and Hox to Make Then.

ME garden without walks fails in half its THE garden without wars - in. ... mission. It may be beautiful, as a field corner thick with wild asters and goldenrod is beautiful- but it is not wholly intimate and inviting. A garden should be more than mere ly a pretty thing to be admired from outside You must be able to wander through it easily and without thought of stumbling or treading on tender growing things, if you are to know it at its best. It must have paths to guide you naturally and without conscious thought.

Of a variety of paths gravel, earth, turf and others—let us not speak here. Each has its special place, each its particular advantages. But the path of large stones is so comparatively seldom built, and its good qualities relatively so little appreciated, that it calls for more than passing attention.

In the first place, there is practical utility. Paths like those illustrated on these pages are always dry, firm and solid. There is no mud or dust to walk in, no grass to keep eternally cutting, no back-breaking raking, grading or filling to do after the initial work has been completed.

And there are other more esthetic but no less important features. There is something sane-Iv substantial and forthright about the path of large stones. It knows where it is going, and why; it lends an air of permanency and dependability to the whole garden. The age and strength of the rock slabs contrast effectively with the fragile beauty of the flowers. To make the comparison still more marked, low growing plants like snow-in-summer, speedwell and rock pink may be planted here and



The paved garden walk lends an air of solid permanence to the whole perminence to the anose setting, in contrast to the transient dowers. Olm-sted Brothers, landscape architects

Regularly shaped slabs arranged in a geometrical manner are sufficiently formal in effect to fit in well with a scheme such as this

there in the spaces between the stones themselves. Along the sides, where their taller growth will not interfere with passing feet, plants of native wild columbine can lift their coral and gold heads in the May sunshine.

The actual making of such a path calls for more care than the casual beholder would suspect.

First, there is the matter of the foundation. This must be solidly made of well graded and packed earth, perhaps with an underlying layer of broken rocks for drainage if the location is low and tends to wetness. The level of the path, of course, should be raised enough to prevent surface water from collecting.

The rock slabs themselves may be of native fieldstone dressed roughly flat on the upper side, or else irregular paving stones of the sort used for ordinary street sidewalks. In either case they should be of varying sizes and shapes, except where an extremely formal effect is desired. Here uniformity of outline is called for. The limits of size vary according to the width of the path and the general scale of the surroundings, but as a general rule none of the slabs should measure less than 1' or more than 3' across the longest way.

The stones ought to be bedded firmly in the soil when the latter has had plenty of time to settle after the final grading and has been well tamped down. The surface of the slabs should be raised 14" to 1" above the top of the earth so that during heavy rains they will not be flooded.

As the photographs clearly show, a considerable variety in size as well as outline of the paving rocks is necessary to permit laying them in a wholly pleasing pattern. Anything in the nature of a geometrical, regular design should be avoided except in really formal work. On the other hand, guard against the appearance of "spottiness" which inevitably follows a too great massing of either large or small rocks. When the path is completed it ought to present a uniform appearance when considered as a wholeno particular sections of it should stand out more prominently than the others because of the size or arrangement of the stones.

The path of paved stones is sanely substantial and forthright. It knows where it is going, and why. The effect of even pattern is evident here



The spaces between the stones should also be irregular in both size and shape. It is they which outline the pattern of the path, and the slabs should never be so closely fitted that these spaces lack prominence. If this point is overlooked, the finished job will be in large measure flat, stale and unprofitable. The photograph at the left shows a path in which the pattern has been well developed.

From start to finish, keep this in mind: a path exists primarily to walk upon, and it should invite rather than discourage involuntary footsteps. To this end its surface must be level and firm. It should never inspire one with the sensation of skipping along a stream on a succession of unevenly spaced and wobbly boulders. "Watch your step" should be as unnecessary an admonition to the stroller along the slab-laid garden walk as it is needful in the maelstrom of a New York subway station at the rush hour.

The stones should be of varying sizes and shapes. Grass may be sown between them, or low flowering plants put in. Kirkland Cutter, architect





This garden, on the place of Dr. and Mrs. J. Clifton Edgar, at Greenwich, Conn., was built in a typical Connecticut outcrop of rock. Consequently the steps were kept rugged

Where there is a slight rise in the garden, the point can be accented by shallow, flat stones set into the turf, as in the garden of Mr. and Mrs. J. Henry Alexander, at Roslyn, L. I.

## STEPS IN THE GARDEN

MARIAN C. COFFIN, Landscape Architect



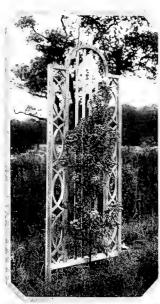
A garden of varying levels is naturally marked by stone or brick retaining walls broken at convenient intervals by steps. These steps can be of stone or brick or cement. They should be hidden fairly well by flowers and vines. Here, in the garden of Mr. and Mrs. Bertram Borden at Oceanic, N. J., polyantha roses grow over the wall, foxgloves in the lower garden and anchusas in the upper

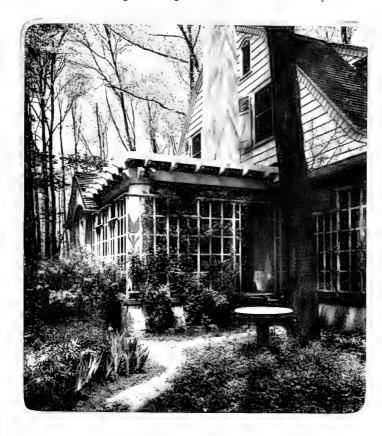
## ARBORS, SUMMER-HOUSES and TRELLISES

A Discussion of the General Principles Which Underlie Their Use—The Questions of Style, Location and Proper Emphasis in the Landscape Scheme

FIRST come, first served, and so to first thoughts, which are usually indicative of something. They are especially significant when they have to do with outdoors. So what is the first thought when one speaks of an arbor?

With the word there comes a sense of leafy shade on a summer day, of vagrant winds, sweet with all outdoors, of insect noises, of flickering wings and the importance of bug hunting and nest tending and whatnot; and above all else, freedom from the everlasting impositions of conventionality as represented by a





Where an individual plant needs support a trellis may serve a good purpose. But a random scattering of detached trellises should be avoided in every case. Unity of design there must be

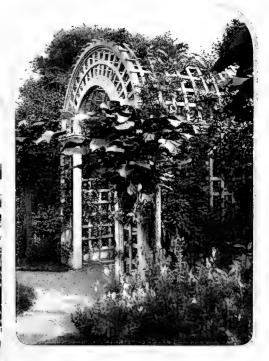
Another use of trellis is found in the residence of J. R. Potter, Esq., Great Neck, L. I. Here it incloses a pleasant outdoor living room under trees. Paul Hertwig was the architect



house. Pan and his court lurk sometimes near, if not within, the shadow of an arbor, but they never approach a house.

There must be nothing about an arbor to dispel this sense of freedom, nothing — continuing the fancy — that will alarm the timidest faun or nymph, or make them fearful of imprisonment. Yet it must be a shelter and afford seclusion from the sun and heat; and even possibly from a little summer shower, though certainly not roofed to withstand real rain. Where rain cannot go, dryads and satyrs never will!

Then it must be so open that birds and bees and breezes may come and go at will; and it must be so completely in harmony with nature all around that both bees and birds will frequent it as freely as they do the trees. Within these specifications it may take any form and be made of any material one wishes; and it may be situated wherever the natural landscape, or a preconceived picture, may determine. But it must always follow the architectural lead of the



The true arbor is never roofed to withstand a real rain. Its very nature demands that it be open for free passage of bird or bee or breeze

A sense of leafy shade on a sunny day, of freedom from the imposed conventionality of a house, should characterize the well planned arbor

Exer since Moses struck the rock garden makers have built wall fountains. This is it the home of Earl P. Charlton, Westport Harbor, N. V. Farley & Hooper were the architects.

Pering from the rey that drapes a staceo wall is a satisf's head fountain. It is on the grounds of the H. A. Rogers place at Fuxedo, N. V. Walker & Gillette were the weekitest.





The wall fountain can be treated in an infinite number of ways. It may be a sharp contrast to its background or, as here, be identical in tone and material. Walker & Gillette, architects

To balance the statue, in the garden below, is a wall jountain also placed in a niche. This is in the garden of Herbert L. Pratt, Glen Cove, L. I. James L. Greenleaf, architect



#### GARDEN THE AXIS IN DESIGN

Simple Principles and Rules Upon Which the Landscape Arrangement Should Be Based, and an Example of How They Are Applied

O garden can be truly successful if it wilfully violates cortain simple. wilfully violates certain simple rules of design which should be carefully considered before a spade is turned. Its beds and borders may proceed from month to month with the most delightful effects of color and mass; its walls and steps and architectural ornament may be executed with skill and exquisite taste, yet it will remain a meaningless array of misplaced beauty if it lacks the essential relation it should bear to its surroundings, and if its various parts want a proper coördination to bring them into focus and to give them their inherent value. It will be rather like a marionette without strings.

Stripping off all artistic vagueness and getting right down to the bones of garden design, we find that in this case the strings are nothing more than the center-lines or axes; and that a proper arrangement of these, one to bring into a convincing and logical relation to the garden the surrounding natural and architectural features, is the skeleton of the scheme. Upon this structure of strings that ties the garden to the house and to the dominant natural growths of the site, the actual plan is

made.

A graphic illustration of the evolution of a garden scheme is given in the accompanying series of plans. These show the development of the axial lines and, by means of them, the subsequent development of the garden on a place of moderate size where the character of the ground is consistently level and unbroken throughout. Plan 1 represents the house and site before any center-lines are drawn and a final arrangement seems correspondingly obscure. The letters on the plans mark the several features of the property that must be taken into consideration in order appropriately to locate and design the garden. Thus "A" is the house of which the extremity of the south wing is a loggia or built-in porch opening upon a cluster of closely grouped trees. "B" indicates the most suitable spot for the flower

garden, "C" the open lawn space, "E" the vegetable garden, "F" the tennis court and "G" the garage. The disposition of these various elements of the plant is arrived at by a study of the adaptability of the ground for each. Thus, it is desired to reach the garden through the loggia, but as there is a greater wish to keep the space on the east front of the house in open lawn, and as the space just off the loggia to the south is far too shady, it seems best to place it at "B" as shown. Then, at "D" the vegetable garden will connect with the service portion of the house and, at the same time, balance the flower garden on the opposite side. This leaves a place east of the gardens and the lawn for a tennis court and completes the sketching in of all the spaces that lie in some relation to the garden.

As yet there has been no definite tying in of these various elements. The gardens, lawn and tennis court have been apportioned to their proper places, but there has been no attempt made to shape them up or to connect them to the house or to each other. To do this it is first necessary to draw in the axis lines of the house group as in Plan 2. This house plan being simple and symmetrical, its axes will bisect the plan in either direction; the main axis, 1, cutting the principal faces of the building and the secondary axis, 2, cutting the less important faces at the ends. These center lines must form a right angle with whatever face of the house they happen to cut. Axes are dráwn through the garage and kitchen yard to help in the development of the service portion of the grounds.

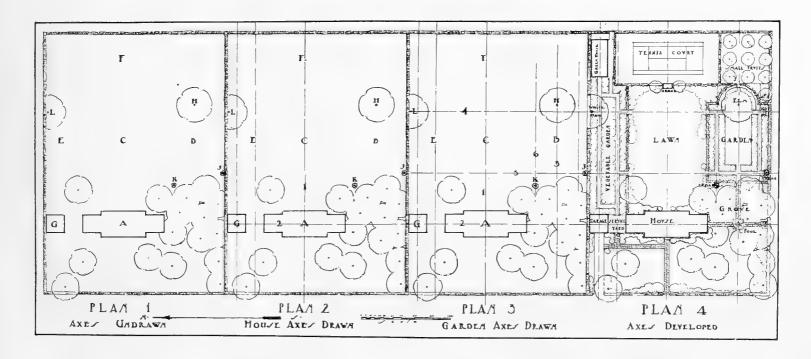
The approximate location of the flower garden having been already determined, it is now necessary to devise a system of axes upon which it may be developed more precisely, and by which it may be convincingly connected with either one of the house axes. As there is in this instance no unusual characteristic in the topography of the site or an existing minor bit of architecture from which to get a start we must use the trees. Of all those on the property only the ones designated by letter are of sufficient individual excellence to warrant their inclusion in the scheme as units in the design. A high arching elm is marked "H", two well developed cedars "J" and "K", and a nicely proportioned white oak "L". As the elm, "F", might serve as the keynote of the garden and as it is just about halfway between the property line and the edge of the space allotted to the lawn, a line, 3 on Plan 3, is made to bisect it and, furthermore, to intersect the secondary axis of the house with a right angle.

We now have the main center-line of the garden and have it connected with a center line of the house, but we want something more than a backbone and we want to tie in also, if possible, the two cedars and the white oak. The cedar, "G", and the white oak are readily worked into the scheme by connecting them to the established main axis of the garden by

lines 4 and 5.

The next step is the shaping up and the adding of flesh to the skeleton. In plan 4 we see how the different elements of the scheme have been proportioned and how the paths and boundaries have been located by means of the axis lines previously sketched in. The cross axis of the house, line 2, formed the basis for a path from the loggia to a pool in the paving of the path, marking the intersection of the main garden axis, then on to a seat, where it terminates at the high boundary of the property

It is largely a matter of taste whether or not to mark with some ornament the intersections of the cross axis, lines 4 and 5, with the main axis of the garden. They have served their purpose in defining to some extent the limits of the garden and in creating the cross lines. Line 6, tying in the cedar "K", has become the reason for the longitudinal path on the north side of the garden and the corresponding one along the south side.





## VISTAS IN THE GARDEN

THE primary purpose of a path is to lead one somewhere. Thus was it in the beginning, is now, and, so far as one can foresee, will indefinitely remain.

Yes, a path must go somewhere, if its existence is to be justified. It should possess a destination not only in the physical sense, but in the mental as well. In other words, the ideal path carries one's eyes as well as feet from here to there. It is a vista, more or less pronounced according as it is straight or winding.

This vista quality is one of the chief assets of an attractive path, for vistas in the garden there must be. Without them we feel confined, shut in by too near boundaries of flower, shrub and tree. Our imaginations, together with our eyes, have too little to feed upon where there is no guiding sense of distance. We need the contrasts and comparisons provided by a receding view.

A vista need by no means be as ambitious as the two examples shown on this page. It may be no more than a glimpse

between two flowering shrubs to a garden seat a dozen yards away; or a bit of distant mountain seen through a gap in the boundary hedge. Yet it must always be justified—generally by



Creating a successful vista is a matter of real study. Keep in mind that the object is to draw one's attention directly to some goal more or less distant

the existence at its far end of some object which serves as a definite goal for the eye.

Rules for planning vistas can be no more than suggestive, as the conditions and possi-

The vista's purpose is to lead the eye into the distance. Here on the estate of Harrisson Bennett, Esq., at Weston, Mass., this effect is achieved by the straight line and contrasting color of the central walk

bilities of different places are rarely identical. Keep in mind the general principle—that a vista is a more or less narrowed glimpse into the distance, gaining its effect through the contrast of near and far objects.

Two mediums may be utilized in framing the sides of the vista, for distinct sides there should be in the majority of cases. The first is architectural in character, exemplified by the pergola, the gateway in wall or fence, the pillars of the covered terrace. The second, and by far the more generally available, is the planting of trees and shrubs. Here lie the biggest possibilities, the best chance to attain success with the minimum of labor and expense. Growing things are Nature's frame, ready to your hand.

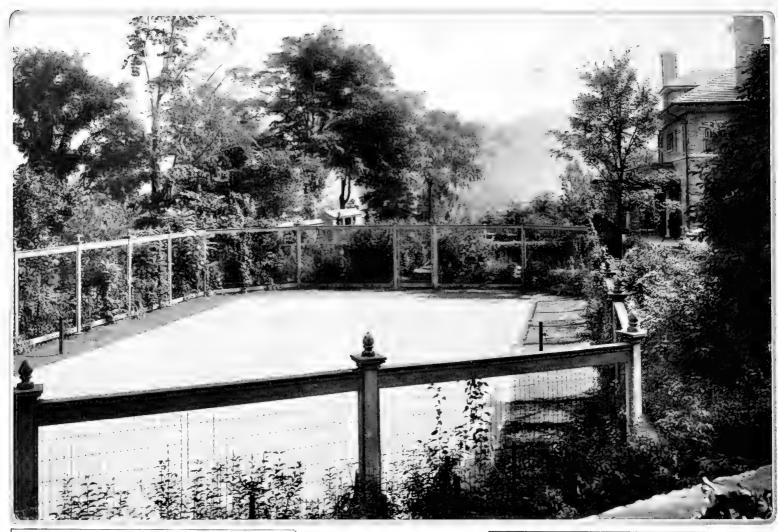
Work for perspective in the plan of your garden or grounds. If there is even an indefinable feeling of undue restriction, of overcrowding, look about for vista possibilities. It is not all of landscape

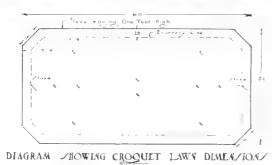
planting to plant; more frequently than most of us realize the solution of our difficulties on the road to garden perfection lies in elimination rather than addition. It is often advisable to break the garden vista with the occasional relief of an arbor. This is done on the Newport place of Mrs. Hugh D. Auchincloss, where fluted columns support the arbors in the rose garden and lattice affords a background for climbing roses. The long graveled path ends in a rustic gate and a vista of sea and sky





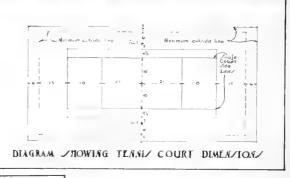
The garden vista is usually accented by a path which forms the major axis in the garden design. Where it crosses other axes the spot can be marked by a sundial or bird bath. In the gardens of Mrs. John S. Newberry at Grosse Pointe Farms, near Detroit, the path leads the eye to the pergola on one side and the tangled fields





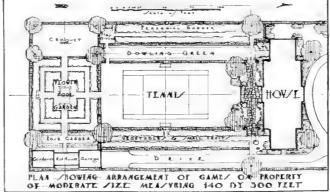
The tennis court should have adequate backstop and side fences. These may be well masked by planting. William Pitkin, landscape architect

## GAMES and the LANDSCAPE **SCHEME**



Croquet has come into its own again as a country home game. It requires a space only 30' by 60', including the boundary lines of planks set on edge

Lawn bowling is one of those games too seldom played, perhaps because it is not well known. It calls for a smooth, sunken alley 10' wide and 60' to 125' long



The single and double tennis courts are the same size except for the additional 4½ alleys on either side of the latter. Turf, clay or concrete is the usual playing surface

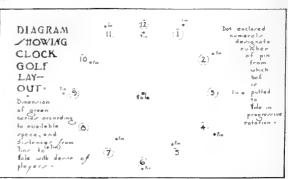
For the golf enthusiast there is the game of clock golf, utilizing a putting green with consecutive playing positions corresponding to the figures on a clock's dial



PLAN OF TYPICAL PRIVATE DOWLING GRILA .

- · PROTH CELARITY NOTE TOTAL TO BE NOT INVITABLE PACE AND TO BE NOT WORK THAN 125" AND IEN THAN 60".

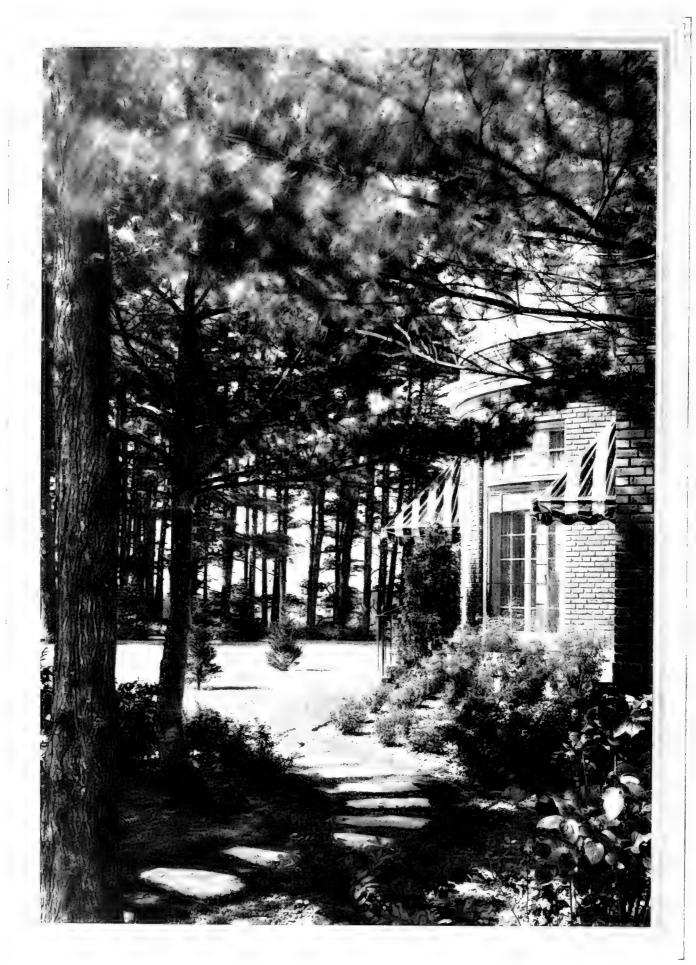
The playing area, whether Ine playing area, whether for tennis, croquet, bowls or what-not, should form a definite part of the landscaping scheme. The best plan is to include it when the planting design is first worked out. These same centers were degame centers were designed by Richard H.
Pratt, 2nd, Landscape Architect



## A PORTFOLIO OF BEAUTIFUL GARDENS

Being Views of Many Types of Gardens in Various Sections of The United States, England and in Italy





## THE LANDSCAPE PICTURE

Fo complete the natural setting of the residence of Frank B. Wells at Burlington, Vt., pine trees were moved near the house, thus filling out the picture begun by the natural woodland of hardy pines on the bluff before it. Ralph M. Weonrichter was the landscape architect of the place



(Above) Seen from an airplane, the garden of "Knollwood", the home of Mr. Charles I. Hudson, at East Norwich, Long Island, presents the full beauty of its Italian plan, taken from designs brought from Italy in the time of François I. The first terrace is a blue garden, and each plot below has its own colors che me surrounded by hedges. Hiss & Weekes, architects



(Left) In the older days, a garden had its portrait sketched in what was called a bird's-eye view. The fashionable garden of today has its photograph taken from a hovering airplane. This lovely garden at "Meudon", the home of Mr. William G. Guthrie, at Locust Valley, Long Island, is planted with a great variety of evergreens. C. P. H. Gilbert, architect

THE COMPLETE GARDEN PLAN
IS BEST SEEN FROM THE AIR





From the lily pool one can look up the grass paths between the orderly beds to the house

ONE should not come upon a formal garden too suddenly. The way to it should be a gradual progress from the house. This axiom is beautifully illustrated in the garden at the home of Dr. J. Henry Lancashire at Manchester, Mass.

From the grass terrace before the house—a terrace worked out by a stone wall and accented with pottery jars—one passes by slow degrees along grass walks down to the lower level of the garden. Here are formal beds brilliant with color the season through. The main



THE GARDEN of DR. J. HENRY LANCASHIRE MANCHESTER, MASS.

MRS. WM A. HUTCHESON, Land cape Archiver

Standing on the terrace before the house one catches this glimpse of the garden and its setting

axis terminates in a semi-circular, lily pool held in a stone curbing.

At this point the ways divide. On each side stone steps lead to a pergola so heavily bowered in vines that one does not at first suspect it of being a pergola. This forms the exedra or termination of the garden.

Behind rises a rock-ribbed hillside heavily forested. The garden, then, is like a jewel of many colors in a setting of woods, its formal lines and varied colors contrasting with the rugged character of the immediate surroundings.

Book of Gardens



A perspective view shows the design of the beds, the pool and pergola covered with vines

On either side of the pergola steps are large clipped bay trees. The border planting under the wall includes bright poppies and stately lilies, primroses and Solomon's Seal, peonies and iris, with spireas and tall roses against the wall and climbing roses above.

The formality of the garden is accounted for by pyramidal box specimens placed at regular intervals along the edge of the middle

path and the box by which the beds are bordered. In the beds are all the well-loved perennials and some annuals—delphinium and digitalis, Campanula, iris, daisies, snapdragons, peonies, poppies, feverfew, heliotrope. Phlox, that splendid color contribution to any

garden, has been judiciously and effectively used in various shades of pink and white.

This is a walled garden, the forest at the upper side being cut off by a high retaining wall covered with vines and apple trees on espaliers. Beneath the walls are hollyhocks,

Little side paths lead to hidden glimpses of great loveliness in color and profusion of blossom

small roses, iris and buddleia. The lower wall of the garden is not so high because—and this is the surprise!—the slope below it stretches down to the sea.

Bisecting the garden are two paths, at the end of which are pretty garden ornaments — bird baths and satyrs looking out from a bower of roses, an old stone well-head, and benches set in shady, secluded corners among fine plantings

of rhododendrons and grapevines.

The sea beyond, the rock-ribbed hills behind; inside these walls, comfortable formality, soft grass paths, touches of statuary, a lily pool mirroring the sky and color from early spring to the first frost of autumn.

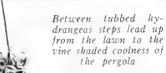


## IN THE GARDENS OF MISS ROSINA HOYT

SOUTHAMPTON, LONG ISLAND

FERRUCCIO VITALE
Landscape Architect











# AN ORCHARD THAT IS A GARDEN TOO

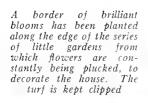
On the Place of Egerton L. Winthrop, at

SYOSSET, L. I.

DELANO & ALDRICH
Architects



Formality and graciousness are cleverly combined in the little rose garden with its close clipped box outlining the beds. A small marble statue surrounded by roses marks the centre

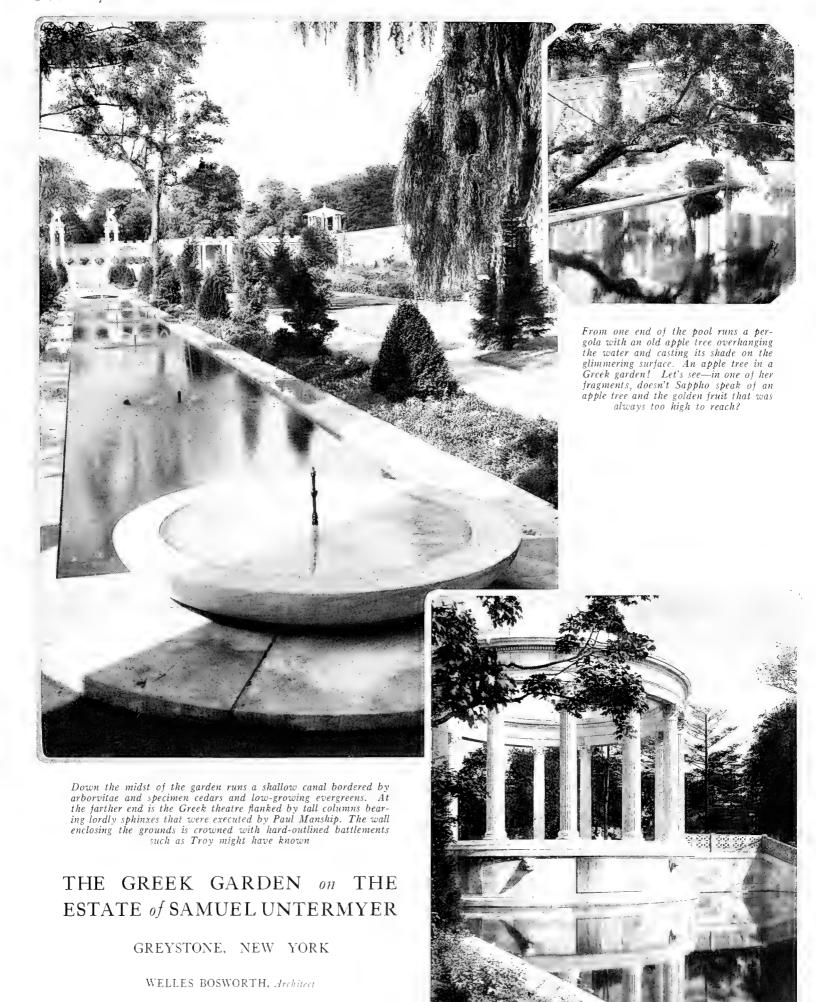






# A HILLSIDE GARDEN IN MASSACHUSETTS

The original garden site was a steeply sloping meadow. This was broken by walls and the terraces graded down. The walls are a background for beds of hardy perennials. The steps are accented by English boxwood trees. Water plants grow in the long pool. From the verandah one looks down into the garden as into a bowl of flowers. This is on the estate of Barin Crocker, Fitchburg, Massachusetts, of which Prentice Sanger was the landscape architect



Standing at the edge of the upper terrace and overlooking the swimming pool is a Greek temple of marble Corinthian columns and a circular entablature open to the sky. It is executed in Alabama marble. The whole garden answers the poet's question, "Why Go To Greece?"



Against solid walls of dark yew have been grown specimen statues carved in juniper. This forms the termination of the canal, and is placed in such a relationship to the water that the sombre coloring of the yew is intensified, and the light tones of the juniper made still more lovely. The garden was designed by Mr. Romaine-Walker

#### T O P I A R Y G A R D E N ENGLISH

In a Slight Thirty Years This Garden Has Been Grown— It Rivals Some of the Most Ancient Gardens of England

HALF-WAY between the formal, architectural garden of Le Notre, the garden of which Versailles is the splendid model, and the so-called "English" garden, with its less geometrical pattern and its absence of architecture, stands the topiary or sheared garden.

The builder and the architect had as great a hand in the making of a formal garden as the horticulturist. Terraces, statues, walls, and arches were more important in these elaborate creations than growing plants.

The topiarist makes the best of both worlds. He is both builder and architect, but the materials he uses are living trees instead of inani mate stone.

Where the ordinary gardener must necessa-



On a dry, arid bank is a thick plantation of laurels, clipped to an even surface, while at the top come the finer foliage and forms of yew. The way leads by these stone steps from the forest up to the level open stretches of the garden

rily work in irregular broken masses, the topiarist can employ straight lines, plane surfaces and all the forms of solid geometry. At the same time his green masonry has this advantage over the architect's stonework, that it is alive and diversified by the innumerable intricate details of a living organism. A flat surface that is composed of countless little leaves is more interesting, richer in quality than the flat surface of a stone in laving out, etc.

In laying out this topiary garden the designer has made some interesting experiments in color variation-yew, juniper, Irish yew, laurel, golden yew, box, and ivy have been mingled so as to relieve the unvaried sombreness of the plain yew hedge.



The garden at "Glen-wood," home of Mrs.
T. B. Wilcox, near
Portland, Oregon, is
laid out in a meadow
with towering fir
trees for a background. A wall of red
brick surmounted by
a white balustrade
encloses the garden.
The borders are
planted with perennials



Half encircled by the curved pergola and protected by the surrounding woods, is the lily pond. In this climate of Oregon only a few weeks intervene between the last blooms in December and the early flowers which open in February. The water in the lily pond is rarely frozen

# A WALLED GARDEN IN THE NORTHWEST

L. M. THIELEN, Landscape Architect



# THE TWO GARDENS

There are away two gardens—the garden in full smilight, then every flower and tree I'mb silhouettes distinctly, and the wrathed waden seen in the white mists of dawn, the mines of dash or late on summer nights patterned over with silver from the moon. For the beauty of color watch the garden very might; for the beauty of subtle tones and

delicate atmosphere study the wraithed garden. Such is this view in the garden at the home of Herbert N. Straus, Red Bank, New Jersey, showing a glimpse of the broad stone step leading up to the tree-shadowed terrace. The landscape architect was Martha Brookes Hutcheson and the associate architect F. Burrall Hoffman, Jr



These four views are of an English walled garden, a garden set on a hill exposed to winds that made walls a necessity. The garden is on the place of Mr. Thackeray Turner, near Godalming, Surrey

# AN ENGLISH WALLED GARDEN

(Below) From the seat in this sunny recess in the wall one can see through an arch into the garden behind. This arched niche promises a windless spot where one could sit in cold weather





When the sun becomes overpowering one may retire to a little stone porch that makes a cool oasis in the midday heat. Contrasted with its shadowed darkness is the blaze of Shirley poppies



A garden architecture that shall seem a natural outflowing of the earth is the ideal of Mr.
Turner's school of landscaping. These walls are of rough-hewn stone fledged with plants



Fortunate is the gardener who can include water in the planting picture, even though it be but a glimpse, as here, through an open ing among trees



A GARDEN NEAR WATER. THE PLACE ofJ. KENNEDY TOD

SOUND BEACH, CONN.

MARIAN C. COFFIN Landscape Architect

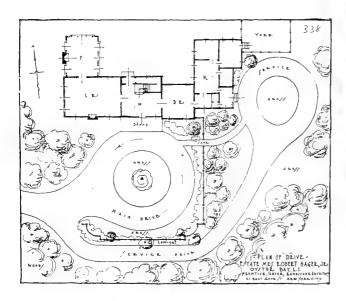
Madonna lilies and Japanese iris are grouped side by side in the beds around the turf circle. Boxwood is used throughout to outline the beds

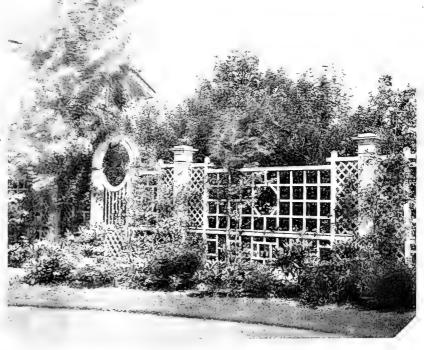


On this place, the estate of Mrs. Robert Hager, Jr., the problem was to plot the drives and planting so that the service end of the house, which is on a lower level, could be easily reached. A latticed forecourt solved the problem

# A LATTICED FORECOURT AT OYSTER BAY, L. I.

PRENTICE SANGER, Landscape Architect





The house stands on the brow of a hill and behind it the land drops about 6' below the level of the forecourt. This accounts for the contour of the drives and the arrangement of planting

A direct route from the front drive to the service door is gained by a path that leads through an arched gate. This is a charming glimpse of the gate and its attendant shrubbery

House & Garden's



The foliage of trees forms a background to the brick wall, which encloses the formal garden with its pool mirroring the branches and sky, its stretches of turf and flagged walks. It is an ornate creation in a rugged setting—each the richer by the contrast

# A WALLED GARDEN SET IN THE WOODS

On the Place of Henry G. Lapham, Esq., at Brookline, Mass., Has Been Made a Formal Garden of Great Distinction

THIS garden was designed to serve as an adjunct to the house. The problem was a difficult one for the reason that the main grounds were purposely left in a natural state, the only artificial element being the garden proper.

This is surrounded by a brick wall at the rear of which is a natural park where fine trees and shrubs with effective ground cover are planted to good advantage and where many wild flowers are encouraged to grow and blossom. The background of trees brings out to advantage the brick wall with its topping of ment and proves an effectual wind-break.

Leaving the house proper, one treads a stretch of soft green turi, which is the central feature of the upper garden. This follows the gradual slope of the land and is surrounded by by-paths that lead down to broad steps. Boxes filled with yellow pansies, vincas and purple pansies stand at regular intervals.

The planting is especially interesting. It is mainly evergreen and molules spruces, hem-

locks, junipers, dwarf evergreens, cactus and Japanese pines, together with broad leaf evergreens such as rhododendrons and leucothoes, with good ground covers planted beneath. There are pansies, blue, yellow and white, and violets, mingling with some of the native lilies.

#### The Garden Proper

This prepares us for the garden proper, which is laid out like a great painting on the landscape. Passing down the step we enter a wide flag walk with the grass growing between the stones. Along the terrace wall, dividing the two sections of flowers, are lilies, double hollyhocks, iris, lupins, asters, single sunflowers and monkshood, as well as evergreens, deciduous trees and Japanese maples, most of which are planted for winter effect.

An oval pool has been placed in the center of the design. To break its severity, there have been introduced baskets of fruit. Vases and tone lions are introduced on the rim. Low benches stand conveniently nearby, and beyond

is the exedra of the curving garden wall.

At the left and right of the pool are rectangular flower beds with small borders of Japanese barberry, and at the extreme right in the upper corner, is an attractive little teahouse, or gazebo. Another summer-house is found on the right of the garden wall.

The beds at the left of the water garden are planted for a succession of bloom, and although this is essentially an early summer plot, yet there are blossoms until frost. Pansies, violets, iris, peonies, marigolds and snapdragons, together with baby's-breath and monkshood, have been planted here. Against the wall are fine specimens of buddleia. As an edging plant pachysandra has been used, and sedum chosen to outline the lower wall.

Near the gate that leads out to the surrounding ground hollyhocks have been planted for color accents, while vincas, pansies and baby's-breath grow in and around the barberry hedge. Near the house and outside the wall are massed plantings of hardy shrubs.



From the house the garden stretches out in its broad areas of turf and border planting with well-kept walks and statuary set at regular intervals to act as accents



Along one of the side walks is a little roofed rest house hid away in a profusion of flowers. Here one can take shelter from the hot sun or a sudden shower

House & Garden's





The decorative value of vines against a wall of dazzling whiteness is shown in this garden of Mrs. John C. Phillips at Beverly, Mass. They hang in profusion over the balustrade and clamber up trom the border of perennials, making a charming background for the quaint old statue of St. Francis that surmounts the bird bath and fountain

Most successful is the arrangement of this garden vista. The dark background of luxuriant trees, the rich beauty of the perennial borders, the accentuating potted hydrangeas, all lead up to and exhance the delicate grace of the little Diana at the end of the path. This is a bit of the garden on Mrs. Gordon Abbott's estate at Manchester, Mass.



It's a far cry from the humble "swimmin' hole" of bygone days to this regal pool set amid the formal beauty of graveled walks and far-stretching lawns and surrounded by majestic trees that cast their shadows in its mirrored depths. The effect is one of unusual simplicity and dignity. It is on the estate of Mrs. Gordon Dexter, Beverly, Mass.

# AN INTERESTING GROUP OF NORTH SHORE GARDENS

This might be the corner of some garden in Italy. Italian is the wall fountain of white marble, exquisitely carved and effectively placed in a setting of contrasting brick. The marble balustrade and graceful urns, also reminiscent of Italy, have for a background, most Italian of all, the imposing beauty of Lombardy poplars. Mrs. Frank P. Frazier's garden, Manchester, Mass.



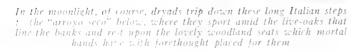


IN THE
GARDEN of
MRS. F. L
VARING
PASADENA,
CAL.

MYRON T. HUNT Architect

(Left) An old-world charm hovers about the garden where lofty Italian cypresses majestically lead the way up the brick steps to the balustraded terrace which surrounds the house



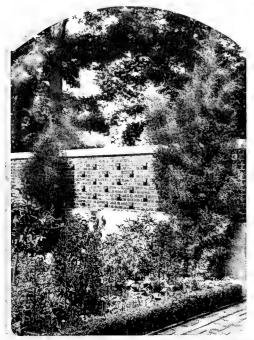


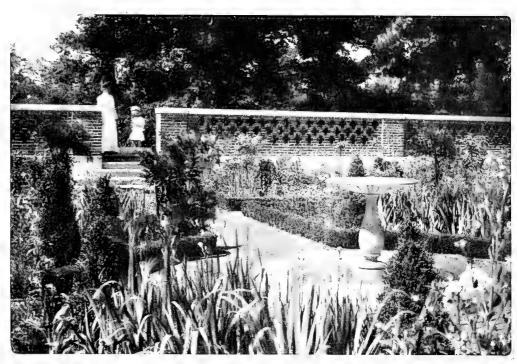


At the other end of the house, one is lured on by the sweetness of climbing roses to walk through the beautiful pergola between rows of box-plants, and find at the end that one has come to the formal flower gardens, beyond which lies a sparkling pool

# IN THE GARDEN OF JAMES PARMELEE, Esq. WASHINGTON, D. C.

CHARLES A. PLATT, Architect Mrs. ELLEN SHIPMAN, Landscape Architect





The feathery foliage of arborvitaes and the richer green of boxwood edging stand out in marked contrast to the lines and color of the brick and cement wall

Approaching the garden from the side, five steps lead down from the higher ground. From them the axial walk leads to a pool and fountain in the center

Save for the rough flagged smaller pathways, it is a brick walked and brick walled garden. Pleasantly relieving shadows are cast by the projecting bricks in the wall, which are regularly arranged





Nothing disturbs the dignity of space in the view from the terrace, and this simplicity of treatment makes it all the more impressive Graceful swans swim lazily on the long pools, and the close-clipped hedges and the tall trees beyond give a sense of unreality to the picture, so perfect is the setting

(Below) At the end of the poplar walk, there is a rose garden with a circular pool and a fountain, exactly as it should be. Sweet-smelling box outlines the beds, and pungent eucalyptus trees border the grounds, giving an atmosphere of seclusion and creating a graceful background

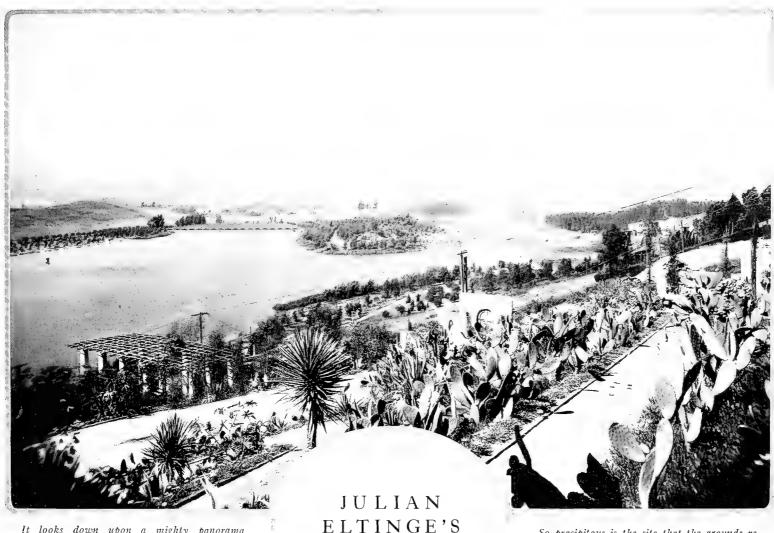


Charming in the sunshine that filters through the trees by day and a place of veritable enchantment in the moonlight is this architectural bit of the garden with its interesting statuary and its balustrades



LEWIS P. HOBART

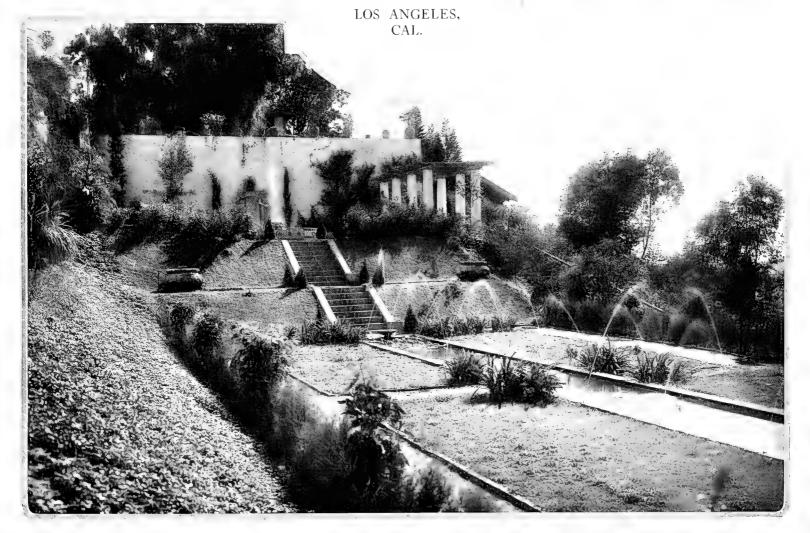
Landscape Architect



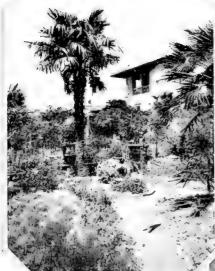
It looks down upon a mighty panorama framed by the Sierra Madre Range. Silver Lake stretches below. Charles G. Adams, land-scape architect

ELTINGE'S GARDEN

So precipitous is the site that the grounds resolve themselves into seven gardens of individual atmosphere, on seven connecting different levels







The view across the garden from southeast to northwest shows two of the accenting palmetto trees and a corner of the villa beyond. The arrangement might be called informally formal



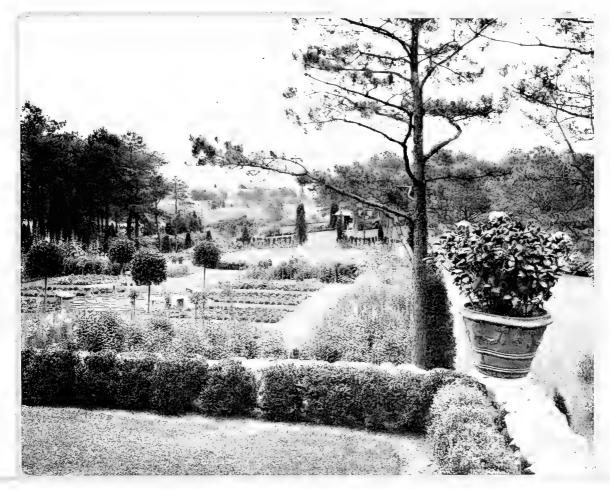


At the intersection of the main axes is a little well with a stone curb and iron railing. Beyond are the arch of the lemon house and the walk which leads into the orchard

Though it is not a part of the garden, the view from the north doorway of the villa through a gap in the hedge to the valley of the Arno is a noteworthy feature of the place

THE GARDEN OF THE
VILLA SAN MARTINO
NEAR FLORENCE,
ITALY

# A NEW ENGLAND GARDEN BY THE SEA



In front of the house a long stretch of ground has been converted into a formal garden. A Druid feeling is given by an old wooden sundial set in a circle of turquoise and flame slate flags, with curved stone benches and bay trees on either hand in symmetrical arrangement

Below the retaining wall with its sheared privet hedge are the clipped turf walks and formal flower beds bright with delphinium, lilies, phlox and many other plants. A thick hedge of arborvitæ surrounds the whole and, with the trees, forms an effective background





### FOR THE GOOD OF HIS BODY

For the good of his body and the cleansing of his soul every man should go into a beautiful garden at least once each year. He should let its beauties seep through his pores, its scents sooth his nerves and its vistas re-focus his vision. Let him sit still in such a garden for an alternoon, and he will come back clear of eye, laughing, contented, at peace with

himself and the world. Such a garden is this, which is at Ashbery, Mass., the home of Mrs. J. P. Lyons. Here are lawns patterned with the shadows of great trees; here are paths winding between masses of colorful blooms; here is a white-balustered terrace under the shade of friendly trees. Here also is a Presence greater than man



Levick

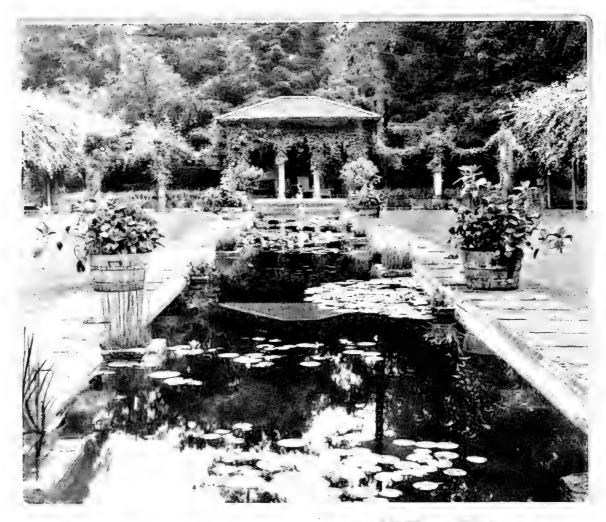
(Above) That one of the series of pools which lies nearest the little guest cottage is about three feet deep and is stocked with trout. Above it is a lily pool, and below has been built a deeper and larger one for swimming. The boulder garden and cottage are part of the property of Mrs. Emma Flower Taylor, of Watertown, N. Y.



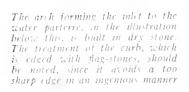
(Left) The main staircase of the garden, where the rockwork shows to splendid advantage. The landscaping is all in accordance with the geological characteristics of the surrounding country, the stones themselves being markedly stratified and including some specimens of very old Azoic rock. Little planting is used here

# A GUEST HOUSE and a BOULDER GARDEN

W. MAREDYDD HARRISON
Landscape Architect



Above The water-garden at Bridge House, Weybridge, the residence of Mrs. Trower, is a canal ending in an Italian tea-house lanked with creeper-clad columns. Water-lilies, kept well with in bounds, enach the reflections in its clear depths. Designed by Mr. Harold Peto





(Left) At the end of the lower terrace in Mr. Prince Smith's garden at Whinburn, Keighley, lies this pool. White Valerian grows in the dry bank, but nothing breaks the calm surface of the water save two sparse clumps of reeds. Designed by Mr. O. Maxwell Ayrton

The water parterre which runs the entire length of the centre terrace at Whinburn, Keighley, is of unusual and interesting design. Iris reeds grow within its narrow borders, and foxgloves hide the top of the dry built-in wall of the terrace







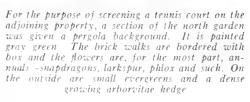
(Below) The octagonal pool in the centre of this sunk garden is a striking contrast to the formal design above. Funkias, muscanthus, and other reeds grow in opulent masses round its borders. This garden is at the residence of Mr. Thackeray Turner, Westbrook, Godalming

# WATER IN ENGLISH GARDENS

(Above) This formal enclosed garden at Westwood St. Dunstan's, Mayfield, Sussex, is a welcome escape from the restlessness of the hillside landscape. Clipt yews emphasize its long lines, and a cock guards the entrance. The ornamental vases are from a design by Christopher Wren







THE GARDEN

of
H. G. DALTON

CLEVELAND, OHIO

ABRAM GARFIELD
Architect

Beds of roses are at this end of the garden, with peonies on the sides and arborvitae. The marble seat and four columns that form the exedra of the garden were brought from Florence. Ramblers are trained over them. Behind these columns arborvitae forms a thick hedge shielding the garden from the street

# THE YEAR'S WORK

Including The Gardener's Calendar, Planting Tables, Spraying Charts, and The Procedure for Making and Maintaining Gardens



Lime will benefit almost all garden soils, and is essential for

those which are acid



A garden fork is the best implement for spreading manure. This is the way

Get the weight of

body as well as foot to

work when spading

vour

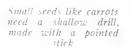


A fork is used to break the earth lumps



Label each row of seeds when you plant it, and use a measuring stick for regularity

To make a "drill" for beets, parsnips, etc., turn the hoe blade on end





See that the manure is scat-

tered evenly over the ground to be fertilized, be-

tore digging it in

How to hold a rake for smoothing the soil preparatory to planting



# BUILDING the GARDEN

Making Sure of Results by Laying a Firm Foundation—A General Summary of Important Details

ALTHOUGH the beginner at gardening may not realize it, the making of a garden is not unlike the building of a house: good materials are essential, but the ultimate results hinge upon making the foundation right. Good seeds and a good plan for the arrangement of the different crops are, of course, important; but alone they do not by any means assure satisfactory results. Years of practical experience, or else the closest attention to every detail of preparation and planting, are necessary to give the garden a strong start toward real success.

The preliminary work—what to do to the soil to make it capable of producing big crops—is the first essential. The next problem is how to set about getting these big crops out of the soil. With this part of the foundation of our garden building laid, what comes next?

To make the whole matter as plain as possible for the uninitiated, let us take up the matter of soil preparation and planting not in a general way, but in detail, item by item in proper order.

Let us assume, therefore, that the garden has been plowed and harrowed and thoroughly enriched with manure or fertilizer, or with both. Possibly there has been a long, beating rain which has made the surface compact and hard again; or a few days of wind and sun that have left it crusted and baked on the surface.

The very first step is to prepare, for receiving the seed, as much of the garden as we expect to plant at the first sowing.

This is quite a different operation from merely having the garden plowed and harrowed or spaded up—as different as putting on the ceiling boards or laths and plaster is from putting up the rough studding that is to support them. Perhaps our planting instructions say to "rake the soil off nice and smooth with a garden rake"; but if the soil has lain for some days in a beating rain or in bright sunshine after plowing and harrowing, ordinary raking will have very little effect upon it.

Get out the wheel-hoe and put on the plain, vertical cultivator teeth-all of them, and evenly spaced. With this you can make a cut 1' to 1½' wide. Mark off roughly the part of the garden you are ready to plant and go over it with the wheel-hoe, a strip at a time, until the entire surface is loosened up. It will be pretty stiff work, but not nearly as hard as trying to do it with a rake, and you will accomplish several times more. If your garden is so small that you have not a wheel-hoe, then you should get one of the adjustable cultivator-tooth rakes or hoes which are now on the market. These, of course, have no wheels, and are pulled instead of being pushed like a wheel-hoe. But they will do good work, although not quite as fast or as easily as a wheel-hoe. You should have one or the other.

Whatever the tool used, the object is to get the surface thoroughly loosened up again to a depth of several inches. If no other tool is available, you may have to do it with an ordinary hoe or with the spading fork.

When this work has been done, we are ready to use the rake. And the next thing for the beginner to learn is that this implement is not to be used in the same manner as it would be in raking grass.

In the latter case, the object is to rake up everything there is on the surface of the ground; in the garden, to rake up as little as possible. In preparing the garden, the rake is used primarily for leveling the surface, and only incidentally for gathering up such pieces of manure, small stones, plant stems and other useless rubbish as may be on the very surface of the ground. The rake, then, should be used with a backward-and-forward motion to level down all ridges and fill up hollows, and lightly remove any loose trash from the surface, leaving a perfectly level, fine, moist strip of ground ready to receive the seed.

The next step is to mark off the first row. Don't just go ahead and guess at it. It will probably not take over ten minutes at the most to get it perfectly straight and parallel with or at right angles to the edge of your garden or the side of the house or the sidewalk—whichever is the most natural line to go by in laying out your garden. That first row will determine the general appearance of the entire garden; make it straight and true.

If you have a right angle to make, here is a simple method of determining whether you have it exact or not. Measure off 6' from the corner along one line, and 8' from the corner along the other. If it is a true right angle, the diagonal between the two points should measure exactly 10'. If it does not, you can adjust one side or the other until the angle in question is a true one.

The actual getting of the seed into the soil is the next thing to be done. There are four distinct kinds of planting: in drills, in rows, in hills, and transplanting or setting out plants which have been started from seed sown indoors or in the hotbed.

"Drills" are plants grown in a continuous row so close together that no effort is made to have them at regular distances, or to cultivate between the individual plants. Radishes, spinach and many other things familiar to everyone are grown by this method. "Rows" signify that the plants are set at regular distances apart, but so close together that cultivation is done only in one direction, except for the use of the hand hoe or rake. Cabbages, peppers and potatoes are familiar examples of vegetables grown in rows. By "hills" is meant the setting of the vegetables so far apart in both directions that cultivation is given both ways, and each group of plants or "hill" is treated as an individual unit. Familiar examples of vegetables grown in this way are melons, sweet corn and pole beans.

Most of the vegetables planted in drills are root crops and do not need very much space between the rows. If the soil is poor, a handful of ground bone along the bottom of each 20' of drill is advisable.

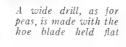
A thorough manuring and fertilizing of the whole area planted is worth while before sowing vegetables in rows, with a little extra where each plant is to be. Hills are usually enriched as units. The soil in them should be especially prepared for a space of 18" to 24" across and 6" or more deep.

All this preliminary work with the soil has a definite bearing on the size, quality and general development of the vegetable crop. As to the dates and depths of planting, the quantities of seed for given spaces, and other specific details about the various things ordinarily grown in the home garden, a tabulation will be found in the vegetable guide on another page of this book.





Onion sets are planted in drills. Put them about 2" apart in the row



Sow small seed direct from the hand, held close to the drill

Cover the wide drill from both sides, pushing in the soil with the feet





Cover the first planting of peas about 1" deep, in a wide drill

The back of a wooden rake is excellent for covering shallow drills

Then turn the rake as shown at the right, to firm down the soil

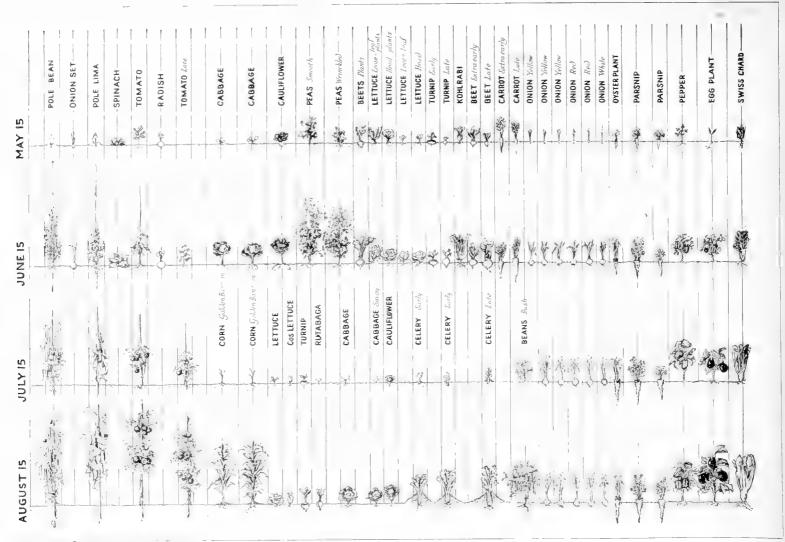
Use a wooden rake for the final smoothing of soil before sowing



(Below) Use a board to stand on, so as not to make tracks in the soil







The first 50' of the planted area, in which the short season crops are so arranged that when they are harvested their places will be taken by plantings of others. The grouping of the pole beans, corn and tomatoes at one end eliminates the hindrance which their shade would be were it to fall on the smaller growing vegetables

# THE FOUR STAGES of the GARDEN

A Graphic Portrayal of What Cross Sections of the Vegetable Area Should Be at Monthly Intervals During the Active Growing Season

VISUALIZING a whole vegetable garden is no easy task—real visualizing, that is, in which a worm's-eye as well as a bird's-eye view of each and all the rows is presented. Difficult as is the undertaking, however, it must be attempted if you would have a garden of one hundred per cent productiveness, for the simple reason that all of the ground must be kept working all of the time. There must be no waste of either time or space. To accomplish this a knowledge of each row's condition throughout the season is essential; hence the necessity for visualizing.

All this may seem an unnecessary sort of exploitation of orderliness, but those who have had much experience in gardening know the dire consequences of trying to raise vegetables on a hit-or-miss plan. Not only does the disordered garden spell small yields and waste of seed as well as space, but its very disarray puts a premium on neglect. One cannot take much pride in a tangle of beans, carrots and corn interlaced with pea vines and weeds, nor gather full crops from its jungle depths. Disease and insect pests flourish unchecked in such a garden, too often extending their depredations to the neighbor's domain across the fence and causing him unwarranted loss.

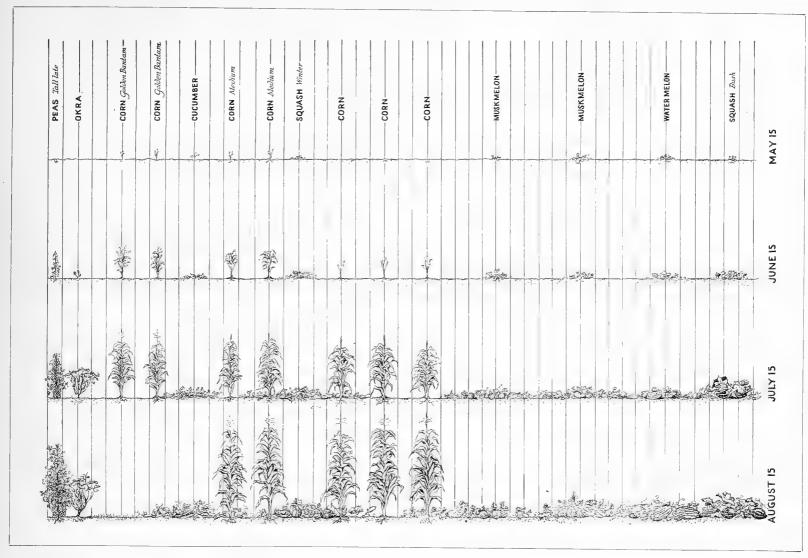
In depicting garden layouts the usual method is to show a ground plan of the arrangement as it appears from above. However detailed and explanatory such plans may be they are not really graphic—they lack the worm's-eye perspective. In an attempt to overcome their deficiencies the garden chart shown here was developed.

Imagine, for the moment, that it is May 15th and that you are looking simultaneously at the topmost horizontal line of the chart on this page and down the rows of your vegetable garden-as-it-should-be. You are facing the south, with the east at your left and at your right the west, because the planted rows run north and south for the sake of an even distribution of sunlight through the day. Thus placed you can see only the first plant in each row, but others are beyond, extending in orderly lines for 50' or more like soldiers standing at attention in "company front."

Beginning at the left or east end of the garden, then, you notice that the first 18" of space (each of the vertical divisions of the chart represents 1') are unoccupied. Then comes the first row—pole bean seedlings under portable glass forcers, for the season is early yet and beans need heat. Another 18" to the west is a

row of onion sets, and next to it, at the same distance, the pole limas, also under glass. Spinach, young tomato plants and the rest follow in their order and at proper intervals as you follow the line to the west end of the garden, 100' away at the right side of page 95. The late peas and much of the main corn crop do not show above ground as yet, for they have just been planted. Throughout the whole 100' you will notice that the spacing of the rows depends upon such points as cultivation requirements, the size and habit of the mature plants, and the length of the period through which they occupy the ground.

One month later, on the line below, growth has correspondingly advanced. The first spinach, radishes, cabbage, cauliflower, peas, beets, lettuce, turnip, kohlrabi and carrots are ready for use, and within the next month their places will usually be taken either by succession plantings or sowings of late season crops. In the cases of the onion row between the pole beans and the limas, the spinach between the limas and the tomatoes, and the radishes between the two rows of tomatoes, the growth of the flanking vegetables is such that by July 15th it heavily shades the intervening spaces. For this reason intercrops are chosen which will



Above is the other half of the garden, adjoining that on the opposite page. Two and a half feet is the space represented between the Swiss chard row on that page and the line of tall late peas. The scale of feet is the same throughout both halves of the chart-1' to each of the vertical divisions

be out of the way before this shade becomes too dense

Certain of the plants shown are, of course, started in "flats" or seed boxes, and transplanted later to the places they occupy on the plan. Among these are the tomatoes, radishes, cabbage, cauliflower and lettuce. The melons and squash particularly should have well enriched soil. A good method of handling them is to plant the seeds late in April where they are to grow, and cover them with portable glass-topped frames which will give them a higher temperature and can be removed as the weather grows warmer and the need for them gradually ceases.

The July 15th stage finds the garden yielding crops while at the same time twenty-odd feet are devoted to newly planted vegetables. These latter occupy the space which has been vacated by the cabbage, cauliflower, peas, early beets and carrots, lettuce and kohlrabi. Here is an example of succession planting, a principle whose intelligent application is essential to the garden of 100 per cent productiveness. "Keeping the ground at work" connotes the maximum yield of vegetables, which can be obtained only by carefully planning for continuous succession.

By the middle of August the whole garden is carrying its full load, for the melons and other vine crops have so nearly attained their growth that they have spread over all the surface allotted to them. The development of the other rows is so clearly shown on the chart that it requires no further detailed explanation here.

A careful study of the allotment of space to the various vegetables will repay, because the distances between rows are the minimum which can exist in the successful garden. Where the available space is less limited, somewhat larger spaces may be permitted, though they will avail little except in making for greater ease in cultivation. In this connection it is well to remember that too wide spaces between the rows give an opportunity for weeds to develop which only extra cultivation of the ground can hold in check.

Another point to note is the grouping of most of the taller and more spreading crops at the ends of the garden, thus leaving the central portion for a concentration of smaller things. The chief reason for this is that the tall growers are mainly long-season crops which cast considerable shade in which lesser vegetables could not thrive. The grouping of the corn and melons results from the fact that these vegetables succeed well in close proximity to each other-in fact, the melons, cucumbers and squashes can overrun the corn rows without detriment to anything concerned.

No provision has been made for the small fruits, herbs or such things as asparagus, which require specially prepared soil in an area all to themselves. For reasons which need not be gone into here it is inadvisable to combine plantings of vegetables and cane fruits. The latter should constitute another garden, or else be used merely around the borders of the vegetable area where their roots will not interfere with the cultivation of the soil in which the

annual plants are growing. The same rule applies to fruit trees; and as for strawberries, they need a section quite their own. The space needed for the herbs, of course, is so limited that they may be planted almost anywhere around the edges where there is an unoccupied bit of ground.

Potatoes, it will be noted, have not been included in this hypothetical garden. While these vegetables are usually the first thing that the beginning gardener thinks of growing, they should by no means be his first actual choice in the majority of cases. Great as has been the popularity of potatoes, the fact remains that growing them has decided drawbacks. Failure to appreciate these has brought about innumerable disappointments, to say nothing of the

waste of time, space and seed.

Potatoes cannot be simply planted in any old piece of ground and expected to grow properly. For one thing they need considerable room, as well as prompt and thorough cultivation at the right times. They are subject, also, to attacks by insects which will quite destroy the plants if spraying is postponed or done in a half-hearted sort of way. In certain seasons—sometimes apparently because of the weather, and at other times for no evident reason at all-the plants will be struck by blight which may seriously injure the crop if it does not actually destroy it. For the returns to be commensurate with the labor involved, soil and weather conditions must be right, and you must understand and be able to give the attention



Complete in two reels—the story of starting seeds, beginning with drainage



The soil is put in and firmed down with the bottom of a glass tumbler or measure



Then the seed is scattered on the surface direct from the containing envelope



The measure comes in again to press the seed lightly down into the soil surface

# GIVING THE GARDEN A RUNNING START

Vegetable Seed Planting Indoors So As to Produce Thrifty Crops Two Weeks in Advance of the Ordinary Season

RANTED a hotbed or a sunny window in the house in which to place them, the first essential in starting vegetable seeds especially early in the season is proper soil. It should be light and very finely pulverized so that the tiny roots can penetrate it readily. Special enrichment, however, is not necessary in fact, should be avoided.

Next come the "flats" or shallow boxes in which the soil is to be placed. These should be 2" or 3" deep, with holes protected by bits of broken crock in the bottom to provide for the escape of any surplus water which may work down through the soil. Whether the soil is put in flats, or directly in the hotbed, it should have under it a layer of some coarse, porous material like cinders or sphagnum moss, to make the drainage more quick and certain.

In filling the flats, care should be taken to press the soil in firmly. Then water it thoroughly, after which it should be left until dry enough to mark off on the surface with a small stick a number of very shallow rows about 2" apart for the seeds.

Seeds such as cabbage and lettuce should be covered only  $\frac{1}{28}$ " deep; beets may go a little deeper; fine flower seeds should be gently pressed down into the soil surface and barely dusted over with soil.

For several days after planting the temperature where the flats are should not fall below 55° at night and 10° or so more during the day. This high temperature tends to dry the soil out quickly, so glass may be laid over the tops of the flats to conserve the moisture.

Once the little seedlings have broken ground,

they should have a few degrees lower temperature, abundant sunlight and plenty of fresh air. Every morning, unless there is a severe storm, the windows (or sash, if the flats are in a hotbed or coldframe) should be opened enough to give a complete change of air without subjecting the tiny plants to a cold draft. The temperature should never be above 70° or 80° for any length of time, and watering must be done with a very fine spray in the early forenoon of bright days.

Transplanting to other flats should be done when the second true leaves appear. The seedlings should be set 2" or 3" apart each way. Move them very carefully so as not to break their rootlets. Before they are set out in the open garden they must be gradually "hardened off" by giving more and more fresh, cool air.



Fine soil is then sifted on top so as to cover the seed completely from sight



Watering with a clean spray gun follows, the fine spray not disturbing the soil



When the seedlings reach transplanting size, they are moved with a flat stick



The first transplanting is into a flat which holds them while hardening-off

#### January

## THE GARDENER'S CALENDAR

First Month



Continuous bearing greenhouse vegeta-bles should be mulched with manure



Trench stored celery should be protected so that water cannot penetrate to it



Plenty of sod and straw covering for will the root pit keep out the frost



To retain the whiteness of the cauliflower heads, break the leaves over them

#### SUNDAY MONDAY

TUESDAY

7. Why not make a small plan of your place to scale. You can then chart any changes intelligently, mark the location of water pipes, wastellnes, and other information that it is often necessary to know accurately.

14. Heavy mulchings that are applied for frost protection, or the loose coverings over vegetable trenches, should be loosened up with a fork or they will get matted down and be of comparatively little value to the plants beneath.

21. Have you a small fruit border around your garden? Raspberries, currants and gooseberries are a necessary part of a good garden, and this is the time to plan where they can beet be put in when actually spring opens.

2S. Dahlia bulbs should be looked over at this time, as you can tell now how they are going to keep. If they are shriveling, cover them with sand; If they show signs of starting into growth they should be kept in a cooler place

This calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates given are, or course, for an average season.

5. It is not a good practice to allow leaves to lie on the lawn with winter. They should be raked into piles and carted to some corner where they can be composted. They are far too valuable to be burned, as is only too often done.

often done.

12. Bean poles and pea brush are necessary accessories of the productive garden. Why not gather some now while other outdoor work is slack. Do not put it off until spring, or in the rush of other preparation it may be omitted.

19. Before spring all the fruit trees must be looked over carefully and every mummined fruit removed. These dise a sed. shriveled fruits are the breeding places of many of our insect enemies, and they should be burned.

26. Have you ever given more than a passing thought to your garden soil? Your state agricultural college will make a soil test for you, perhaps free of charge, saving you many dollars in wasted fertilization. Write to them.

6. House plants must have some attention at this time; the pores or breathing or breathing or or breathing or breathing or breathing or or breathing or brea

extract in it.

13. While the ground is frozen it is a good practice to get the manure into your garden. This will prevent the cutting up of the borders with the wagon wheels. Besides, the terilizing quality of manure improves with age.

20. Authorities state that placing food for our useful winter birds will not result in their glving up their valuable activities of weed, seed and noxious insect hunting. Regular feeding means more birds and greater economic benefit.

27. Have you ever figured the loss in your garden from s u m m e r droughts. Checkmate the dry weather with one of the good irrigating systems that are on the market. Order it now, before the rush: it can be installed later in the year.

A good tomato trellis pays for itself in im-

proved yield. It is a good plan to make one this winter, building it in sections to facilitate handling

#### WEDNESDAY

1. Do not neglect to mulch thoroughly all the late plantings of bulbs, perennials and other soft plants. Coarse manure is the material preferred for this purpose. Leaves or any be used, however, if manure cannot be had.

S. Crops that have been growing in the greenhouse for any considerable time should be mulched. Pure cow manure is the best material for this purpose; several inches of its should be applied to the benches where the plants are.

the plants are.

15. What about cold-frames for your garden this coming spring? You can easily build the frames your-self, but the sash must be ordered now or you won't have them in time. Re me m be rithat the early cold-frame is the best.

22. A good grape arbor is both attractive and remunerative. Build the arbor substantially and buy only good varieties of grapes for it. Trench the ground beneath the arbor so that the plants will grow and produce a bundantly.

29. All kinds of hardy plants that require it can be pruned at this time. Young fruit trees should be trees should be pruned severely, while trees that have attained fruiting size need only very moderate reducing. It is well to look them all over now.

ELIZA says it ain't right, with high prices tellin' us to save all the food we kin, but I ain't goin' to quit feedin' the wild rabbits this winter. I raised quite a batch of extry carrots for 'em last summer, out back of the cow barn—'Liza called it my rabbit garden—an' saved all the knotty late apples that weren't good for nothin' else. Now that they's two foot of snow on the ground, an' it's colder'n a February moon, I kinder like to feel that them little cottontailed devils ain't got empty stomachs. It's pretty hard sleddin for 'em this weather-you kin tell that by the mess of fresh tracks in the snow around the house every mornin', where they been huntin' for food. Didn't take the furry little cusses long to find where I'd put the carrots an' nubbins on the bare ground under the front piazza, though, an' new they hold mass meetin's there reg'lar every night. Mebbe it's waste, but—well, I dunno but what it'll be forgiven me.

#### THURSDAY

2. Spraying of dormant trees and shrubs may be practiced throughout the winter months. Any of the soluble oil sprays may be used for scale and other bark infections Stronger solutions may be used now than later.

9. Chicory
and rhubarb
can be forced
under the
benches in the
green house.
Use a drop curtain to exclude
the light. The
roots may also
be grown and
lear. Mushrooms, too,
may be grown
in similar situations.

16. Polatoes

16 Potatoes and other stored root crops should be picked over and any bad tubers removed. In very diy cellars where the tubers are likely to shrived they can be covered with salt hay or straw to exclude the air.

23. Plants
that are growing in the
house should
be top dressed
occasionally
with some sort
of concentrated plant food.
Prepare deplant foods
come for this
purpose that
are excellent
and odorless.
Your dealer
will have them. 30. It will soon be time to start hotbeds for the early vegetables and flowers. Fresh manure must be used for this purpose; it would be a good policy to start gathering it now, so as to have plenty when the time comes for using it.

#### FRIDAY

3. New land that is intended for growing purposes can be made team of the land that is intended to the land that is intended to the land that is intended to the land grass while it is dry. This is also excellent treatment for the grass growing in orchards and bordering cultivated the land that is in the land that is intended to the land that is intended to the land that is in the land that in the land that is in the land that in the land that is in the land that in the land that is in the land that in the land that is in the land that in the land that is in the land that in the land that is in the land that in

10. It is a bad practice to scrape the bark from trees, as a consider a ble amount of the live bark will be injured. When the bark is moss grown it can be cleaned by scrub bling it well with a stiff, hard bristled brush.

17. During severe freezing weather large trees can be transplanted with absolute safety. Dig them with good sized balls of carth around their roots and let them irreze hard before can be used for transportation.

24. While the vines are dormant is an excellent time to take them down for any painting that may be necessary on buildings or fences where they are grow in g. Necessary the pairs should be made before replacing the vines.

31. Many evergreens are damaged every winter by allowing wet, heavy snows to accumulate on their branches, breaking them down. Take a wooden rake and shake the trees gently to remove the snow after every heavy storm.

#### SATURDAY

4. Don't neglect to keen up regular sowings in the greenhouse of those crops which require plantings to assure a supply. Beans, cauliflower, lettuce, radishes, spinach, etc., are all true croppers and true croppers and the way.

in this way.

11. Plants that are being wintered in frames require air and light occasionally or they will become soft and yellow. Open up the frames on e very bright day, and always water them in the morning so the plants will be dry at night.

18. While the trees and shrubs are dormant caterylliar nests and egg masses of various insects are readily discernible Burn the nests with a torch of kerosen esoaked rars, and paint the egg masses with a solution of cressore.

25. All edged tools should be looked over now and those that need it must be sharpened. Lawn mowers that are in need of repairs ought to be attended to at this time, and if the wheelhoe needs tinkering it should be fixed.

What are What are these maples and beeches and birches but odes and idyls and madrigals? What are these pines and spruces but holy hymns?

-Oliver Wendell Holmes

-Old Doc Lemmon.



Hyacinths, narcissus and other bulbs may be lifted and brought indoors



Old croquet wickets can be utilized to hold the leaf mulch over small plantings



Liquid fertilizer is simply prepared by placing a sack of manure in water



Straw mats are excellent covers for cold frames. They can be bought from supply men; or if you have enough long-fibered straw you can make them yourself



Cuttings from grapes and green-house fruit trees should be taken now



THE BIG TWELVE
IN GARDEN TOOLS

### February

## THE GARDENER'S CALENDAR

Second Month



Foliage trees trimmed this bemonth, before the sab rises



Why not some raspberries or other cane fruits around the garden?



this sow sweet peas un-der glass for later garden effects

#### SUNDAY

As sunbeams
stream
through
through
through
doselordisplace.
So waved the
ptne-tree
through
And fanned the
draum str
neverbrought.

2. No one can garden well with dull or poor quality tools. This is the time to do any repairing that may be necessary. All edged tools must be sharpened; kerosene and grease will check the rust on all the metal parts.

9. Deciduous trees and
shrubs also require pruning
to keep them
in good health.
Early flowering subjects
such as the
lilac or spircas
are best pruned after
they have finished flowering
along in the
spring.

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

13. If you like golf you should have a practice green constructed on your grounds in 80 me screened corner where you can practice when you want to. Sow it with fescue and creeping bent grass in equal quantities.

20. No garden is complete without some well selected and properly arranged garden furniture. In formal gardening pottery is very necessary to the completeness of the scheme. Make your selection and order now.

27. All dormant trees and shrubs that are subject to the attacks of San Jose scale

attacks of San Jose scale should be sprayed with one of the soluble oils. Trees that are already infested must have at least two thorough sprayings.

FRIDAY

This calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates given are, of course, for an average season.

3. All plants that have been in the same pots for any considerable time, such as palms and other decorative things, should be repotted before their active growing season starts. Top dressing is the alternative.

10. Pea brush, bean poles and to-mato stakes are necessities of a productive garden. A few hours spent with an axe in the woods will furnish you with these needed accessories. Gather them before they leaf out.

16. Start sowings now in the greenhouse of the hardy vegetables such as cabbage, cauli-hower, lettuce, celery, tomatoes, etc. Use flats or seed pans for greater convenience, and provide plenty of drainage.

23. Before work is started outside make to use the continuous of t

4. Plant stakes are necessary evils; necessary evils; what the plants would not require supporting, but they do, and we must accommodate them. Order stakes now. If you can't do this, cut some in the woods.

trees, hydrangeas, oranges and other plants of this type that are used for decoration outside in the summer should be looked over to see if the tubs will stand up through another season's use.

18. Now that spring is so near let us that spring is so near let us the spring is so near let us the spring is so near let us the standard of any grounds, whether they be for fruit or flowers. Early planing lewer errors.

25. Flowering plants that a first plants that a first plants are included by the started into active growth. By postponing this and then trying to rush them along the plants are invariably grown too warm and in many cases ruined.

17. Have you studied the merits of a fruit border? No place is complete without one. Raspberries, currants, gooseberries, blackberries, grapes — all these make excellent border plants for the garden.

24. Sweet peas may be street how we the street how we the street house. Paper pots are excellent for them. After the seeds have germinated the plants must be kept rather cool to prevent their getting soft and weak stemmed.

5. Have you ordered your supply of seeds? They should be on hand now. An old bread tin makes a good mouse - proof storage for them. Don't let the seeds get damp — a cool, dry place is the ideal storage.

12. Have your trees looked over carefully to determine their true condition. It takes a life-time to grow good trees but they are subject to injuries of many kinds. A little tree surgery at the right time will save them.

19. If you cannot afford a green house there are numerous styles of plant protectors that are helpful to gardening. They should be ordered now, as their greatest value is in the early season. Glass ones are excellent.

26. Garden arbors as they are now made are very attrac-tive and necestive and neces-saryaccessories of the garden. If you wish to enjoy them this summer they should be or-dered now, as well as the roses or other vines for them.

THE first clear day we've had in a week—it's snowed pretty near all the time since last Wednesday—an' this mornin' I druv the wood sled up on the mounting fer a load o' logs. By jing, it was great—all blue an' white an' sparkly, same as a Christmas card. There warn't a breath of air stirrin', an' the clouds—we'l, sir, it fair hurt yer eyes to look at 'em, they was so durn white an' still an' kinder overpowerin'; pilin' up into the sky, ye know, from behind the hills like in a picture. Clouds are blame human sorter things, any-how. Some's skinny an' gray an' old lookin', an' they gener'ly makes ye mighty low-spirited. Others 're reg'lar high fliers, feather-headed little critters that make ye feel like whistlin'; they're fair weather clouds, an' they ain't got a care in the world. Then ther's the dull, weepy kind, no character at all; an' them that's always in a hurry; an' the blusterin', thundery ones that growl like they was goin' to kill ev'rybody in sight an' then edge past without really doin' nothin' to speak of. An' they all come an' change an' grow fat er thin an' finally disappear, an' we never see 'em again.

—Old Doc Lemmon.

6. Summer flowering bulbs such as cannas, rladioli, dubilas, caladium, etc., should be looked over carefully. Excessive heat or moisture will start them into growth; dampness with a low temperature is apt to cause decay. 7. Have you progressed any further than your mind with that rose garden you have been considering all these years? Each year that you postpone establishing it means that you are losing just that much pleasure.

14. It is much easier to overhaul your lawn mower now in the garage than it will be next summer on the lawn. At least the gear boxes must be cleaned out and repacked with vaseline, and the other bearings olled.

21. Stock plants of all kinds of bedding subjects should now be started into active growth so that the necessary quantity of cuttings will be ready for taking when the proper time for the proper time for the spring.

28. Sprays of all the early flowering spring shrubs can be cut and placed in water in the house where the flowers will quickly develop. Pussy willow, golden bell, Japan quince, etc., can be forced in this way.

SATURDAY

1. Better get out the saskes for the hotbed and cold-frame, and see that they are in good condition. Broken glass may need replacing, and the wood should be painted to protect it from the weather.

15. Start to prepare your notbed now. At least 12 inches of good hot manure will be necessary for making it. Tramp this firm and cover it with about 4 inches of good garden soil that has been well screened.

22. Have you ever given a thought to the comforts of our greatest garden friends the birds? Why not get a few houses where the birds so where the birds ean nest? A bath for the birds will give even more pleasure to you than to them.

There is no peace for the blowing leaf, The end of his journey he never knows; He lifts from the ground with an up-ward heave;

Or settles, as lulls the wind or blows.



stakes andpoles for tomatoes and beans may be cut now



Currants and gooseberries may be sprayed now for scale, etc.



wounds, etc., is es-sential to the health of trees



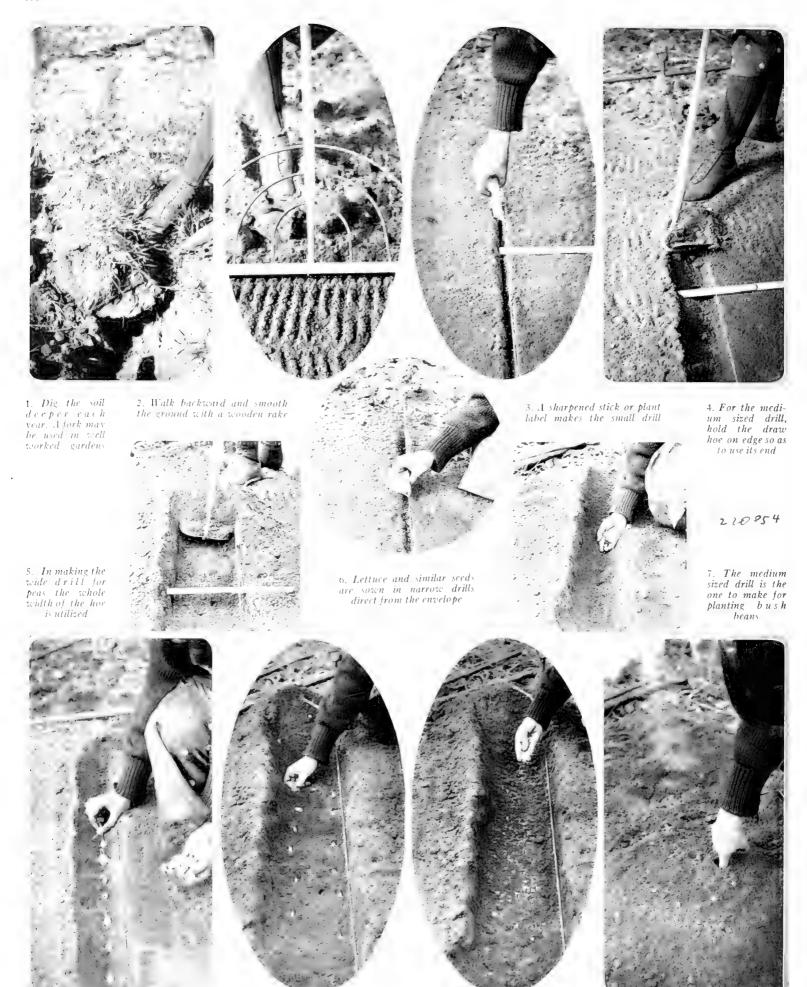
When they have made their first true leaf the young plants, should be transplanted, set-ting them about 2" apart



When the forcing bulbs have fully developed in the greenhouse they should be moved to a cool, dark place



When preparing the seed box or flat, use plenty of drainage material such as oyster shells or broken crocks



8. Onion sets, too, can be planted in the drill of medium size. This entails considerably less labor than making individual holes for them, and the results are good

O Bush limas should go in double rows in the wide drill. Planted thus, they will make a well filled line. Artificial supports are unnecesary for bush varieties

HOW TO PLANT SEEDS

10. In the wide drill peas are sown broadcast to assure a good row. After the plants are well above ground they may be thinned out if the row is crowded

11. Corn, pumpkins, cucumbers, melons, etc., are sown in hills. The soil in the hills should be thoroughly cultivated several inches deep and well enriched

### March

#### THE GARDENER'S CALENDAR

## Third Month



Now is the time to start putting in cuttings of the bedding plants



The manure mulch on the lawn should be raked up and carted away



Barrels or tall baskets placed over the rhubarb will make better stalks

#### SUNDAY

30. Most of the diseases to which potatoes are heir are caused by dry, hot weather. Potatoes like cool, moist soil. Prepare a piece of ground and plant them now, or as soon as the soil can be worked. An early start makes success.

2. All the necessary pruning must be attended to now. Foliage trees and shrubs, all the flowering types that blossom on the terminals of the new growth, such as roses and fruits of all kinds require attention.

9. Where absolutely necessary, bay trees, hydrangess and other orn a mental plants should be re-tubbed. Others can be te-fertilized by digging o ut some of the old soil with a trowel and filling in with a rich mixture.

16. Specimen trees of all trees of all trees that we have the same trees that the same trees the

23 All the various garden tools will soon be in use regu-larly. Are they in proper con-dition? Good dition? Good work is impos-sible with poor or dull tools. Go over all the implements, removing any rust and sharp-ening the cutting edges.

#### MONDAY

31. Rhubarb should now be showing some growth. Barrels placed over the plants will give earlier and better stalks. Beds that were not mulched should have a good application of manured ar about this time. 31. Rhubarb

3. Chrysanthemums for next fall must be propagated now. If the space is available it is a good practice to put in a batch of cuttings every four weeks until June to assure a long period of bloom in the autumn.

10. Cannas, especially the newer or befter types, should be divided by cutting the eyes separately. They can then be rooted by placing in sharp sand, or they may be potted up in a very light soil mixture if you prefer.

17. This is the time to think of flowers for next winns for next winns for next winns for the Chinese or Obconica type, cyclamen and antirrhinm are three of the best sorts. They should be started from seed now under glass.

24. The top protection on the rose bushes can now be removed; dig the winter muich of manure well under. A liberal application of bone meal to the soil will produce worth-while results during the flowering season.

#### TUESDAY

WEDNESDAY THURSDAY This calendar of the gardener's labors is

This calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates given are, of course, for an average season.

4. Asparagus is one vegetable that starts growth very early, so dig the winter mulch under now, hill up the rows on the old plantings, and apply salt liberally to the bed. New plantings should be started now.

of all the more common types of annual flowers should be attended to now. Asters, calendula, balsams, calendula, balsams, salvia, marigold, scablosa, pansies, stocks, etc., are some of the many varieties that may be planted.

18. Before the buds burst to the deficiency of the deficiency trees and shrubs, the whole growth should be looked over carefully for any caterpillar nests, which can easily be destroyed by burning without injuring the plants.

25. Sweet peas may be sown out of doors now. Dig trenches about two feet deep and the width oi a spade. Fill the trench with good top soil and manure well mixed and sow the seed a bout two inches below the surface.

5. All new plantings of hardy stock must be set out. The earlier in the planting season this is done the less soon as the frost leaves the ground is the proper time for work of this sort.

12. Have you everything in readiness for the opening of the big garden drive next month? Seeds, garden libe, plant labels, measuring stick, pea brush. bean poles and tomato supports are a few essentials.

19. Small fruits of the different types can be planted now. Grapes, raspherries, blackberries, etc., can be trained on wire trellises, or stakes may be used. The latter are neater and more economical of space.

26. Boards, straw, burlap, cornstalks and other winter covering materials for boxwood and such tender plants must be removed now. If possible, select dull, cloudy we at her for carrying on this operation important.

I RECKON ye'll think I'm a crazy old fool when I tell ye what I done this mornin', but I couldn't help it no more'n a song-sapere settin' in the sun down along the brook can help whisperin' away to himself about how spring's comin' in a couple o' days. Wa'l, here it is, anyway—I went out in the pasture lot an' flew a kite till 'Liza hollered fer me ter come in ter dinner! Dunno jes' why I done it, 'cause ye know I'm shadin' seventy year an' the rheumatiz's been pesterin' me all winter. Somethin' in the feel o' the wind, though, an' the way the cloud shadders raced, kinder reached 'way down inside me an' took a-holt, an' I jes' had ter go. Fun? Why, say, stranger, I ain't had such a good time in I dunno when! Reg'lar kid I was, a-settin' ag'in the sunny side o' the barn, feelin' that queer springy pull on the string an' watchin' the kite swingin' lazy-like away up that between the clouds. Sent some paper messages up the string, too; funny how dark they looks when they gits up a ways, an' then all silvery as the wind flips 'em around so they ketches the sun. Made me feel twenty year younger, an'—wa'l, I don't care if the rheumatiz is extry bad tonight!

—Old Doc Lemmon

#### **FRIDAY**

But now the moon's a phost in silver mail, a short in silver mail, As, blowing As, rough a storm of stars, the earth Dips downward into dawn, deluged with tight—Sunlight which is the golden laugh of God.

- Натту Кетр

7. Cuttings of all the various types of bedding plants should be started in sand in the greenhouse early this month. Coleus, geraniums, lantana, beliotrope, agreatum, etc., are some which come under come under this heading.

6. Changes of all kinds where the moving of plants, sod, hedges, etc., is involved must be carried into execution a tonce. This also applies to garden walks which, if altered in early spring will settle by summer.

13. Better make arrangements now to use your greenhouse for some useful purpose this summer. Potted fruits, chrysanthemuns, melons. English forcing cucum bers, etc., are some of the many possible products.

20. All the best varieties of dahlia roots should be started into growth so that cuttings can be made of those desired. If the roots are laid upon a few inches of sand and watered freely they will soon start into growth.

27. Mulches of all kinds applied to shrubbery boiders, perennial plantings flower beds, etc.

plantings, flow-er beds, etc., should be dug under. In doing this, get the manure as deep as possible and see that it is thoroughly in-incorporated with the soil.

changes in old plantings on new plants contempiated for the perennial border should be finished up at the earliest moment. Those which are planted early in the season will flower late this summer.

21. If you are considering new lawns this spring sending instance of the control of the control

28. Manure applied to lawns last fall must now be raked up. All lawns should be raked clean and rolled or tamped. A top dressing of wood ashes and bone meal will help to produce a good vigorous growth of grass.

#### SATURDAY

1. If you have not alleady planted them, seeds of cabbage, cauliflower, celery, parsley, lettuce, tomatoes, leek and onions should be sown. See page 41 for detailed information on this tion on work.

8. All the exotic plants, such as kentias, fraca e nas, eccess, arecas, eccess, expensive expens

15. Make a habit of heeling in your nursery stock the instant. It arrives. Stock that is allowed to lie around in the wind and sun is certain to show heavy losses, because tirs roots will be dried out and the smaller ones will die.

22. The covering on the strawberries should be removed and burned and the manure mulch can be dug under. In cases where for some reason no fall mulch was applied the bed should be well manured and dug in.

29. All trees and shrubs that are subject to attacks of San Jose scale should be sprayed with one of the soluble oil mixtures before the buds swell. At least forty-eight hours are needed to smother these pests.



The mulch under shrubbery, roses, etc., should be dug under this month



Clean, fine sand applied to the lawn will kill off many weeds



Most roses need severe pruning now. Leave two or three buds on new wood



Potato planting may begin just as soon as the ground can be worked. Cool, moist soil is the best



All the plowing should be finished as soon Use a subsoil plow and get as possible. down really deep



Keep the soil well stirred around the plants in the cold-frame. A small "claw" is the best tool to use



Poles are the usual supports for the climbing kinds of limas. Cedar is the best and most durable wood. Set the poles firmly and let them stand about o' high



When the vines begin to show a tendency to climb they will need some assistance to start them projectly



The beans should have sand directly about them to ensure good drainage and minimize the danger of rotting through excessive moisture during germination

# TELLING the TALE of THE LIMA

I N any well regulated garden calendar for the latitude of New York City, May 1st is planting day for lima beans. On or about that date everything should be ready, for where is the vegetable garden worthy of the name which has not its limas?

These beans are among the most desirable vegetable crops. The vines seldom fail to produce abundantly if conditions are reasonably favorable and standard sorts have been planted. There need be no waste of the crop, however, for if the yield is greater than can be used on the table while fresh, the surplus can be successfully and without great trouble preserved for use next fall and winter.

The photographs and captions on this page tell the tale of the principal steps in pole lima culture. Choose a good variety like Early Leviathan, and plant in hills 3' to 4' apart each way. One-quarter of a pint of seed will be enough to plant a row 50' long. This quantity will cost you about twenty-five cents at any good seed store. Succession plantings may be made until the middle of June, to insure a longer cropping season.



As soon as the young plants are large enough to show their relative sturdiness, thin them out until only the three strongest remain in each hill



Lima beans should be planted with the "eyes" of the seeds down, five or six to a hill, in a circle around the pole. Cover them with about 1" of soil



Lima beans may be planted in among the corn, whose stalks will furnish them with support as well as shade

### April

### GARDENER'S CALENDAR THE

Fourth Month



The ground between rows should be kept well stirred with a wheel-hoe



The dead leaves may be swept from the ivy with a long handled broom



The garden rows should be laid out before sowing is actually begun

### SUNDAY MONDAY

I wonder if they like it—being trees?
I suppose they do. It must feel good to have the ground so flat,
And feel yourself stand right straight up like that—So stiff in the middle—and then branch at ease,
Big boughs that arch, small ones that bend and blow,
And all those fringy leaves that flutter so.
—Charlotte Perkins Stetson.

7. That unproductive orchard can be made to yled abundantly if you resort to the proper use of cover crops. To prove this, sow now a mixture of Canada field peas and oats, and plow the m under when they are about 2' high.

14. Plants in tubs intended as specimens for the grounds should be watered freely with liquid manures. Where it is not convenient to make or use this, a top-dressing of pure cow manure can be applied to them.

21. Start hardening off the bedding plants in the greenhouse or frame now. It is certain death to set out to ese to ut to less, geraniums, etc., unless they have been properly harde ned, which ordinarily takes about two weeks.

28. This is the proper time to have the greenhouses overhauled. Broken glass should be replaced, loose glass can be reset, and the wood work should be protected by at least one coat of good exterior paint.

This is

6. If the asparagus bed was mulched last fall it can be turned under now. Hill the soil up to the rows if you like your asparagus white. Salt in liberal quanties should be applied to keep down the weeds.

13. Seeds of the more hardy flowers such as snapdragon, asters, alyssum, calendula, eentaurea, pansies, violas, scabiosa, etc., may be sown outside at this time. Have the soil well pulverized, as flower seeds are very fine.

20. Keep the soil constantly stirred between the soil constantly stirred between the soil constant street and the soil constant street and the soil can be protected by placing the line between the labels. Soil cut vation is more necessary with young plants than old.

27. Bean poles can now be put in place for the limas. Dig liberal sized holes for them, working plenty of manure into the soil when refilling. The mound or hill should be about 4" above the adjoining grade.

### TUESDAY

1. Straw-berries should now be uncovered for the season. The winter mulch of manure can be forked under. If no mulch was applied, however, give the bed a good top dressing with bone meal before digging.

S. If you have not pruned the hardy roses it must be attended to at once, because roses start into active growth very early. Prune the hybrid types to three eyes, but leave about 4" of new wood on the teas.

15. All borders or open spaces around plants should be kept loosened up with a digging fork. This admits the necessary air to the soil and also prevents the rapid evaporation of the moisture if the weather is dry and sunny.

22. Do not neglect the sweet peas when they are small—see that they are properly hilled when about 4" high. Supporting the mobil ont be postponed until they have been flattened by wind or rain and damaged.

29. Have you spraying materials on hand for the host of bugs and diseases that are certain to visit you this summer? Spray the currant bushes now with arsenate of lead to destroy the green currant worms while small. 29. Have you

### WEDNESDAY

2. Raspberries, blackberries, currants and
gooseberries
that were
buried last fall
can now be unearthed. An
application of
good manure
worked into
the border now
will materially
improve the
iruit.

9. The secret of success with postates six he postates is early planting; these plants are quickly destroyed by hot, dry weather. To avoid this danger plant how, so that the crop will come to maturity before the trying weather strikes it.

16. The perennial border should be overhauled. Any existing voids must be filled in either by mew plants or by dividing those which are left. Dig under so me good manure or give the beds a top-dressing of raw crushed bone.

trees that have been recently transplanted must not be neglected. Liberal watering is essential, and heavy mulching is also a good practice. Make soil tests to see that the soil below the roots is sufficiently moist.

30. If you grow any crops for the lips for the lips of the lips of the lips of the man should be made ready. Mangels, carrots and sugar be et s are staples and can be sown now, although corn must wait for warmer weather.

WE'VE been fixin' up to-day, spring-cleanin' the grounds, ye might say. They was a lot o' stuff—twigs from the winter prunin', straw covers from the strawberry beds, branches busted off in the trees by the wind, dead grass an' things we overlooked las' Fall—which had to be got out o' the way. Me an' Sam lit into 'em right after breakfast, rakin' an' haulin' an' pilin'. By supper-time we was through, so we fired the piles. Most o' the stuff was pretty dry, an' jiminy, how she did burn! The big pile at the edge o' the orchard blazed so hot we couldn't hardly git close enough to throw on anythin' more, an' ye could hear it cracklin' clear up to the house. I took a look at it 'long about dusk, to make sart in it couldn't do no damage durin' the night. It had all burned down to gray ashes with a little pile o' red coals in the middle, an' the sky in the west was gray and red, too—kind o' background, like, for a picture. A still evenin' it was, with millions o' peeper frogs jes' bustin' their throats down in the lower medder an' the smoke from the fires layin' in streaks close to the ground. It smelled different, that smoke, from what it did in the Fall. Then it made ye sad, 'cause it meant that the year was dead; but last evenin' it was full o' ideas 'bout flowers an' areen leaves an' new crops gittin' away to a fresh start.

—Old Doc Lemmon.

### THURSDAY FRIDAY

3. Weather conditions vary, but usually it is safe to start sowing seeds of the more hardy types of vegetables now. Peas, spinach, radishes, carnois, Swiss chard, etc., are all seasonable.

10. If properly hardened, plants of the more hardy types of garden vegetables can be set out now, such as cabbage, cauliflower, lettuce, onions, etc. Cover them with plant protectors or paper on dangerously cool nights.

17. Frames for the melons must be set in place now. See that the hills are well prepared inside them, using plenty of good manure and chopped sod. The seed may be sown just as soon as the soil is thoroughly warmed up.

24. It is a mistake not to make what sowings are necessary to give a continuous supply of quick maturing crops such as peas, beets, carrots, spinach, etc. The common rule is to sow when the preceding sowing is above ground.

4. Earl planting is the first essential to success. Finish all plantings of deciduous trees and shrubs at the first opportunity. Firm the plants well in the soil and don't allow them to suffer from lack of water.

11. Have you stakes on hand for dahlias and other tall flowers, raffla or tying, an arbor for the garden roses, a sundial for the flower garden You are sure no essential has been forgotten? This is the time to check them up.

IS. This is the proper time to start some plants from seed for flowering next winter in the greenhouse. Primula, cyclamen, snapdragon and many others should be started now and grown during summer in frames.

25. Summer flowering bulbous plants as gladioli, montpretias, begonias, etc., are very little effort and are worthy a place in any garden. They may be planted any time now, the gladioli at biweekly intervals.

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season.

-Old Doc Lemmon.

### SATURDAY

5. The lawn should be a looked over carefully to assure a velvety green sward this summer. Sod any small bald spots, and spade and seed do wn I arge spaces. An application of bone meal or wood ashes is advisable.

12. Before the trees and shrubs leaf of the state of the

19. Do not let your green-house be idle all summer. Therearemany worthy crops which can be started now such as potted fruits, melons, to matoes, cauliflower and chrysanthecauliflower and chrysanthe-mums. Do not let the house be empty.

26. Thinning out crops is more important than many suppose. Plants that are allowed to crowd become soft and spindly and can never develop healthily. Crops that require thin-ning must beattended to when very small.



expands. Paint the wounds



Peas should be hilled when 4" or 5" high, to protect them from breakage





Indoor started sweet peas and other hardy things may now be planted out



Cultivate the soil close up to the plants, especially when they are small



Melon frames should be put in place several days before the seeds are sown, so as to warm up the soil and promote quicker germination



During this month many of the flower seeds may be planted out where they are to grow. Often annuals are good to supplement perennial plantings



Contemplated changes in the perennial garden should not be forgotten



# IN YOUR OWN BERRY BED

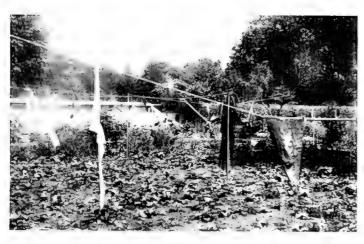
Hand cultivation and weed ing are as important in strawberry culture as with other garden crops

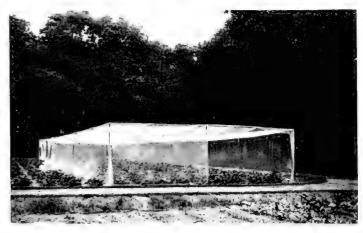
> The straw mulch placed under the ripening berries keeps them clean and free from earth

Hanging rags and other "scarecrows" tend to keep marauding birds away from the fruit,

but the only sure protection is a net properly erected on a regular solid framework









When a wise selection of varieties is made, the crop will last several weeks at least



Strawberries are propagated by runners. Posome each year for the following season



Runners which are not to be potted should be removed, to centralize the plants' energy

Mav

### THE GARDENER'S CALENDAR

Fifth Month



Work the fertilizer the ground around the roses with with a steel rake



Immediately after transplanting, water copiously to settle the soil



The burned tibs of ornamental evergreens can be cut out with shears

SUNDAY MONDAY

What a parden of surprise Out beyond my window ties! Fancy, when the night is there, Gentle trees with drooping hair Rocking, rocking, rocking cr a dlewise, Luttle stars with yetlow eyes! George Cronyn

-George Cronyn

4. It is unwise to postpone potato
pone potato
pianting any
longer if you
want good resuits. Potatoes
are a cool crop
and late plantings of them,
however well
cared for, are
raitly successful. Use a
fertilizer with
1% potash.

II. Do not delay cutting the lawn until the grass is so long as to necessitate raking. Good lawns are the result of liberal fertilization and frequent mowing, the latter in some cases twice a week in growing weather.

TUESDAY WEDNESDAY

7. All the summerflower-ing butbous plants may be set out now. To assure a continuous supply of gladioli, they can be planted at bi-weekly intervals. The rule is to plant all bulbs twice as deep as their diameter.

This calendar of the gardener's labors is This calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates given are, of course, for an average season.

5. Most of the more com-mon annual flowers may be started out of doors now. Have the soil in which they are to go well prepared far enough ahead so that it will pulverize when being worked. Sow the seed thinly in drills.

12. The edges of walks, flower beds, shrubbery borders, etc., should be trimmed cleanly and neatly with a turing iron every few weeks through the season. This finishing touch is necessary to complete your grounds.

18. Just before the general
flowering season begins in
the perennial
garden it is a
good practice
to top - dress
the beds with
bone meal or
other concentrated fertilizer. Scatter it
on the surface
and rake it into
the soil. 19. Leaf beetles of various types will soon be at their destructive work. Spray the currant bushes, goose-berries, elms, cherries, etc., using arsenate of lead as the most adhesive of any of the regular poison sprays.

25. Dahlias may be planted out now. Make deep holes for them, setting the plants several inches below the grade to allow for filling in the soil as they grow. Use a tittle sheep manure or bone meal in the bottom. 26. When the various fruit trees are in bloom they should be sprayed with a combination of Bordeaux mixture and arsenate of lead. This will destroy the various insects that ruin the fruit, catching them as they hatch. 6. Tubbed plants of all it inds used a round the grounds for decrationmay be taken from their winter quarters and moved into misowth, these plants should manure.

13. Now that
the garden
work is in full
swing, invite
you self to get
a cquainted
with the use of
a wheel-hoe.
These implements do the
necessary work
of cultivation
more efficiently
and with less
effort than any
other.

20. Leaf eating insects will also soon be working in the garden. For them a poison spray on the foliage is the thing to use. Cover the squash vines with nets, as illustrated on this page, to protect from squash bugs.

27. Winter celery may be sown now. Make a seed bed for it and sow broadcast. When large e nough to handle, dibble the little plants off into well prepared soil. When they are 4 inches tall you can plant them out.

1. If the weather conditions are settled the warm vegetablectops may be sown at this time. Beans, llmas, corn, squash, pumpkins, okra, melons, etc., are all considered warm crops. Details on page 53.

THURSDAY

8. Crops that are more or less in active and are not growning well should be stimulated with an application of nitrate of soda or some other strong fertilizing element used in liquid form to bring about quick results.

14. Weed killers are yery necessary in stone gutters, by all ks and drives, and other places where it is unwise to use a hoe. One application now will destroy all undesirable growth for the season. 15. Make a small seed bed for the accommodation of late cabbage, cauliflower, kale, Brussels sprouts, etc. These should be sown now. Keep the young plants in separate beds until t is time to plant them out.

21. It is unwise to postpost the sowing of farm
crops any
longer. Mangels, sugar
beets, carrots,
turnips, etc.,
should be
sown. Assize is
the important
factor with
these crops,
early sowing
is needed. 22. Do not neglect to keep up succession sowings in the garden, as advised elsewhere in this issue. Corn, beans, spinach, peas, radishes, lettuce, be ets, carrots, chervil, cu c u m b e r, cress, kohlrabi and turnip are

28. If the weather appears settled, the bedding out of geraniums, cannas, salvia, coleus and other bedplants may be started. If a delayed cold spell should come along, cover the plantings with old sheets. 29. After they have finished flowering, but not before, the illars, syringas, deutzia, forsythia, spirea, snowball, pearl bush and other early 10 w e r i ng shrubs should be pruned. Cut out the old, unproductive wood. FRIDAY

2. The early sow ings of vegetables must be properly thinned out; plants that are unduly crowded become thin and spindly and never develop into healthy, vigorous specimens. Thin the plants when small.

9. Carnations intended for forting in the greenhouse next winter can now be planted out in the garden. Have the ground well fertilized, keep them pinched back, and see that the soil between them is cultivated.

16. Roses for flowering in the green house next winter should be planted in the benches now. Use a rich, heavy soil for them, firm the bels thoroughing after planter planter of the soil 16. Roses for

23. A few dead flower stalks will make an otherwise good garden appear very ordinary. Keep the tall flowers supported with individual stakes, the grass edges clipped, and remove old stalks.

30. Keep the ground between the potatoes constantly stirred, and look out for the potato beetles. If any are in evidence, spray with arsenate of lead. Bordeaux mixture along with the lead will prevent attacks of blight.

SATURDAY

3. Do not stop sowing those crops that mature quickly, such as spinach, peas, radishes, lettuce, etc. Frequent sowings in usable quantities are the first step toward success. It there is any surplus it can be canned.

10. Maple trees should be pruned just as the buds at the buds at the bursting; there is no danger of their bleeding. Any large scars which may result should be painted with proper tree paint to preserve the wood until the cuts heal.

17. A barrel or liquid manure in some convenient corner of the garden will be a valuable accessory for treating plants that are not doing well. Alternate applications of this with solutions of nitrate of soda.

24. If the weather is dry you will be troubled with the attacks of green fly and other plant lice. Peas, letture erg plant lice. Peas, let-tuce, egg-plant and other soft foliage plants are especially susceptible. Spray with strong tobacco solution.

31. Formal evergreens and hedges should now be clipped in the state of the should be s



Good birch brush along both sides of the pea row is the best kind of support



Young hedges can be quickly trimmed with a sharp sickle instead of shears



Succession planting should be practiced so as to maintain the vegetable supply

DID we ever stop ter think what a garden'd be like if they warn't no birds in it? Gosh a'mighty!—why, it wouldn't be no garden at all, hardly. I'd hate like thunder ter lose the robins a-huntin' worms along my paths at sun-up, an' the thrushes in the afternoon. 'Course, they's others—song sparrers that ye hardly notice 'cept when they's perched like sentinels on top o' the tomato trellis, er mebbe runnin' ahead of ye between the onion rows when ye're cultivatin'; an' wrens that flies over from their nest in the ol' box under the piazza roof ter catch currant worms; bluebirds in the spring, an' now an' then a catbird er brown thrasher, 'specially 'long in the summer. But the thrushes an' robins is my favorites; they're the real garden birds—never fergit ter sing a kind o' cheerful, full-hearted mornin' song from the trees, soon's they wake up an' 'fore they goes down ter breakfast. Pretty good way ter start the day, singin'.

-Old Doc Lemmon.



The tall flowers like dahlias and hollyhocks need individual stake supports



If you have space without sacrificing other vegetables, you can now plant potatoes



Annual flower seed should be sown in the open without delay if you want best results



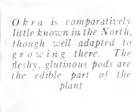
Peas should be picked as soon as the pods are well filled out. Leaving them on the vines longer than that means that when they appear on the table they will be more or less mealy



The one positive test of the ripeness of corn is to strip the sheath leaves partly away from the ear. In the eyes of an expert the "feel" of the ear, the condition of the silk, etc., are significant

Ripeness rather than maturity marks the time to gather vegetables. The former connotes high table quality, but the latter often spells toughness and loss of fine flavor

Gather the onions as soon as their tops die down. Pull them and lay them on their sides for a day or two to dry before removing the roots and tops



The keeping of notes, of records of the garden's growth, is at once a pleasant task and a valuable future guide. Planting and harvesting dates should be set down



# WHEN TO PICK VEGETABLES

THE greatest asset of the home vegetable garden is the opportunity it offers for supplying the table with the best of things in their most palatable stage of development. Unfortunately, many beginners to not realize that a delay of a few days in picking often means the difference between beans or peas or conthat are tender and juicy, and the same vegetables in a toughened and more or less passe condition. Distinction should always be made between ripeness and maturity. The former connotes high table quality; the latter often spells the opposite.

See to it, then, that your fresh vegetables do not grow too old before you gather them. Thus will you benefit your bill-of-fare, and be enabled sooner to prepare the ground for a new sowing.



### June

### THE GARDENER'S CALENDAR

Sixth Month



Sweet pea vines trained on fences should be tied up as they grow



Potato beetles should be met with poison sprays or powder



unproductive suckers should be cut away from the corn

### SUNDAY

1. Do not reglect to pray the Iruit trees when they are in flower, using a combination of Bordeaux mixture and arsenate of lead. Spray thoroughly from different angles. This will destroy the many harmful insects.

8. Look out for rose bugs. Go over the plants each day with a small can of kerosene, shaking the flowers over the can and causing the insects to fall into the kerosene. This will destroy them quickly and effectively.

15. Onion maggots are very destructive at this season of the year. It is good practice to top dress the soil thoroughly with soot to keep them in check. Thorough attention in this matter will be well repaid by a better crop.

22. It is good practice to go over the bedding plants, pinching the tips of their growth trequently. This will cause them to become more sturdy and to develop more quickly and in better form. Only the tips need removal.

29. Letture will frequently run to seed at this season of the year. Boardsorother covering material placed over the plants will tend to reduce the loss from this source. Remove all such covering during wet spells. Lettuce

### MONDAY

2. Sow now kale, Brussels sprouts, cabbage, celery and caulifower. These when large enough to handle should betransplanted into other beds and set about 4" apart. From here they can be moved into the garden later.

9. The climiting roses should be looked over carefully and any heavy, row yrrowth should be tied into proper position. Pruning should be deferred until they have finished flowering, when the old wood is cut.

16. One of the essentials in producing good fruit is the proper thinning of the crop. The trees should be gone over carefully now, reducing the quantity of the fruit by about one-half. Larger and better fruit will be the result.

23. Don't neglect to soak the soil thorsoughly when to receive the soil thorsoughly soil the soil was the soil was the soil was tribucial was tering. Evenings or early mornings are the best time for this work. Cultivation should follow so as to restablish the dust mulch.

30. Crops such as potations, celetry, tomatoes, etc., will be improved by mild applications of fertilizer. Scatter the fertilizer on the ground around the stems of the plants, working it well into the sol with a hoe.

### TUESDAY WEDNESDAY

3. Before applying a mulch to the straw-berries to protect the fruit from dirt it is a good practice to give the plants an application of strong liquid food. This will greatly increase the size of the maturing berries.

10. Fruit trees that have reached the production of the series of the se

17. Do not neglect to work the garden soil deeply and often. This not only keeps the weeds in check, but preserves the soil moisture for the use of the plants. If this is not done the moisture from the soil will quickly evaporate.

24. Thinning out all the crops in the garden is advisable. This should be done when the plants are small and before the roots are interlocked. or numerous desirable plants will be removed before lifting.

Into the stilly woods I go, Where the shadows are deep and the wind-flowers blow,

And the hours are dreamy and lone and long,

is greater than song.

-WILFRED CAMPBELL

4. Do not omit spraying the potatoes with arsenate of lead at the first appearance of the potato beetle. Hilling the potatoes when they are in flower is advisable. At this stage the young tubers are forming.

11. Tomatoes, eucumbe is a in d
metons, as i

asparagus beetle.

25. Carnations in the field which are intended for planting out in greenhouses for winter should be sprayed occasionally with Bordeaux mixture if there is any indication of rust. This will make much difference later.

And the power of silence

### THURSDAY FRIDAY

5. A top dressing applied to the lawn now will encourage root action that will help the grass to resist the dry weather sure to come later in the season. Sheep manure, bone meal or wood ashes are excellent materials to use. 6. If they have finished flowering, the early spring shrubs such as forsythia, deut-zia, etc., should torsytma, deut-zia, etc., should be pruned. The best method is to cut out en-tirely several of the very old branches. By pruning now no flowers will be sacrificed.

13. All the hedge cutting should be done now. Frequent trimming is required in order to avoid making a number of unsightly voids. Hedges that have been neglected for some time may be improved by tying in shape before cutting.

12. Care should be taken with all newly planted hardy stock that it be not allowed to suffer for lack of water. Thorough soaking of the groundnot a mere followed by a heavy mulch is needed.

19. The flower garden should be looked over and any dry stalks should be removed. Plants that bloom throughout the entire season should be top-dressed occasionally with some good fertilizer to maintain vigor.

26. Azaleas, genistas, accaret a o u et c. c. a o u et c. c. a o u d. b. c. c. d. a o u d. b. c. d. d. c. d.

20. I a 11
flowers such as
hollyhocks, delphiniums, helianthus, etc.,
snould be supported before
any damage is
done by storms
and heav y
winds. Proper
stakes should
be put in and
the plants can,
be tied in to
them.

27. It is advisable at this time to take large quantities of chrysanthemum cuttings. These if rooted now will make fine plants for 6" or 7" pots, or when bedded out will make stems about 3' long with good sized flowers.

SATURDAY

7. Don't neglect to keep up the sowincs in the vegetable garden Corn, beans and cucumbers should be sown twice this month. Intercopping may be resorted to in many cases with the purpose of increasing the yield.

14. It is a good plan to go over the tomato plants, reducing the quantity of unproductive vines and supporting those left to carry the crop. It matters little what system is employed to keep the fruit supported.

21. Be sure you keep the lims beans and peas properly supported; the peas by staking and the limas by tying in to their poles. Bush limas should be suppoted by small pea by rush placed in the row Such attention repays.

28. Keep a sharp lookout for aphis of all kinds if the weather is at all dry. If the plants are infested spray them for three successive evenings with a reliable to-bacco solution. Be sure the spray reaches the under sides.

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A little fertilizer scattered on the soil will improve the crob



Some sort of trellis should be made ready for the tomato plants



A can partly filled with kerosene is an excellent receptacle for rose bugs

THE other mornin' I noticed some o' the extry early strawberries had been half et up. They looked like a turtle had been after 'em, an' pretty soon I found him—a hig box-turtle layin' right in among the plants. They ain't nothin' surprisin' bout that, fer ev'ry farmer's boy knows how fond them critters is o' ripe strawberries. I took an' carried this particlar turtle outside the garden fence an' set him down at the edge o' the woods, fifty yards away. Next afternoon, dunmed if he warn't back ag'in! Then I got right mad an' toted him off to the swamp back o' the ban, thinkin' that would sure lose him. Not a bit—in two days he was catin' them berries ag'in like he'd always been than I found the hole in the fence where he got in, an' stopped it up; an' there warn't no more trouble. Now, they's two interestin' p'ints' bout all this. First, how did he trail them strawberries such a long ways; an' second, how did he find that one little hole in the fence wich let him in at 'em?' 'Pears to me turtles ain't such dum fools, after all.

-Old Doc Lemmon.



A little sheep manure scattered over the grass will improve its quality. This fertilizer should be spread as evenly as possible



The root stock growth of grafted roses should be kept reduced



Old barrel hoops surrounding the plants and raised on stakes 1' or so make excellent supports for the tomatoes



SIMPLE SURGERY for**FRUIT** TREES

(Iower left) A view of the same tree before pruning shows a typical example of the sort of neglect which cuts down the quality and size of the crop

The properly
pruned apple tree
has a low head, an
open center, and
is not cluttered up
with a lot of unproductive but
strength consum
ing shoots



When branches are shed orankes are removed they should be sawed off cleanly close to the trunk, leaving no stubs



Allowing several branches to develop close together often results in bad splitting



Pruning (Lower center) and spraying the fruit trees for scale are both tasks for the winter



.1 very weak for-mation. Sooner or later the tree will split at this triple crotch and be ruined



Young trees as well as old need con-structive prining. At this period the developing form of the tree is guided in the way it should go and its mature success largely determined



The thin, weak interior branches should be cut out. They bear little or no fruit, and during the growing season do much to obstruct that free air circulation so necessary to crop perfection

### July

### THE GARDENER'S CALENDAR

### Seventh Month



To postpone its going to seed, shade the lettuce with slat screens



Another way of shading lettuce is to support boards along the row



Put poison on the cabbages before the worms get a start

### **SUNDAY**

Today I have grown taller from walking with the trees, The seven sister-poplars who go softly in a line; And I think my heart is whiter for its parley with a star

whiter jor was star star That trembled out at night-fall and hung above the pine.

Karle Wilson Baker.

7. Do not neglect the flower garden. Keep all the spaces between the plants well lossened up to admit air to damit air to tall flowers, especially, should be staked, and when this is done, remove all dead stems.

14. Don't wait for blight to destroy your plants before you start spraying. Melons, cumbers, tomatoes, celery and other soft plants are subject to blight and should be sprayed with Bordeaux mixture.

21. During the dry weather dry weather that use ally preases the tast time at would be an excellent plan to study the different types of irrigation. Sooner or later you will have one of these rain machines in your garden. Do it now.

28. Carnations in the first must be first must be neglected. It is on the condition of these plants that the flower crop of next winter to a large extent depends. Cultivatetheground well and keep the plants pinched back.

6. Keep the cultivator working steadily. Deep and frequent cultivation will relieve to a great extent the precessity of artificial watering. Be sure to work the ground after each rain so as to conserve the natural moisture.

13. The last sowing of corn should be made at this time. Use both the very early and medium varieties. Plant several rows quite close together so that in late fall they can be protected, if necessary. This will increase the amount grown. amount grown.

about some fall peas in the garden? Don't think because you failed the first time that it is not practical. Use manure in the trench and for good results use the round type of peasuch as New York Market. about some fall

27. Why not start a number of perennials of perennials of the start and the start and

### MONDAY TUESDAY

1. Do not neglect the necessary pruning of the early flowering shrubs after they have finished flowering. Remove some of the old shoots at the base and reduce the number of the thin weak interior branches. weak in branches.

8. Set out some plants of the late plants of tabbage, cauliflower, kale, Brussels sprouts, celery, etc. Dig deep trenches for them, adding plenty of manure. Water the plants for several days or until they start to grow.

15. Ruta-bagas, beets and carrots for winter use should be sown now. Sow in the drills and thin out to the required distance. In dry weather look out for green flies, and if attacked, spray with tobacco solution.

22. This is the time of the year when the chrysanthemums in the green house should have someattention. Frequent feedings with liquid plant foods are advisable. Use various materials so as to give a well-balanced food.

29. Keep the runners removed on the state of the state of

### WEDNESDAY

2. Sweet peas must not allowed to be allowed to be come to be come

9. Why not sow cover crops on that waste land or in the crohard? This is the most economical means of soil restoration. Corn, rye, clover and beans are good for this purpose and make excellent summer cover crops.

16. After the outside roses have finished flowering at the attention of the bed to improve the quantity and quality of the fall flowers. With a fork apply a liberal top dressing of bone to the bed as fertilizer.

23. Cool nights and hot nights and hot days are midew and blight breeders. If the leaves are infested, they should be picked off and then the plants sprayed with a strong solution of copper. Sulphite of potassium is best for mildew.

30 Some flowers for the green house should be started now, such as stocks, calceolarias, chendulas, etc. These are but a few of the many flowers which can be started now for finishing in the greenhouse.

THEY give a pajent, I think they calls it, over to East Ellsworth las' week, to celebrate the foundin' o' the village back in 1710. Some o' the rich summer folks started it, an' it must've cost 'em a pile, what with the rig-outs for the actors, the refreshments, an' all. They took it powerful serious, too, them New Yorkers, an' told us how we owed it to our great-grandedas to show we ain't forgot all they done for us by startin' East Ellsworth. I reckon it don't make much diffrence to them that's dead these hundred years an' more, whether we gives a pajent or not; but we likes to keep the summer visitors happy an' spendin' their money, so we says "Sure' when they asked us. It was fun, too, after we got started. One day they was a sham fight with the Indians, an' I like to died a-laughin' at Hen Pilikins, with a tommy-hawk in one hand an' a scalpin' knife in t'other, a-whoopin' through the brush after old man Elkus, who was dressed up like one o' them Pilgrim Fathers. Hen he ain't much on looks even in his reg'lar clo'es, but fixed up as a Indian—wa'l, a hoss that seed him jes' took one look an' bolted. Mebbe them two o' rascals couldn't git over the ground, too—the las' we seed of 'em they was a-headin' straight for the East Ellsworth House, an' goin' strong!

### THURSDAY

3. The main shoots on the dablias should be leduced to three. Close cultivation will keep the shoots from increasing. The plants must be disbudded. Do this regularly if you want to have really high quality flowers. 4. The potatoes should be sprayed once more with arsenate of lead to destroy late hatchings of the potato bettle Early potatoes should now be ready for use; dig them only in such quantities as you can use.

11. If you have fruit trees it would be greatly your start now to start now to get acquainted with summer pruning. This is the accepted method with fruiting trees and it should be attended to produceresults. 10. The time the climbing roses should be looked over is after they have finished flowering. Some of finished flowering. Some of
the old woody
shoots can now
be removed at
the base, and
the lateral
shoots can be
reduced somewhat, improving
their growth.

18. After the fruiting period is over the cane fruits should be examined very carefully. First remove all the old fruiting canes and then tie the new canes in position if care is taken. These will be your next year's producing canes.

17. This is an excellent time of year to look over the following the fol

24. What about next winter in the green house? Now is the best time to start some of the vegetables for forc in g. Cucumbers, to matoes, mushrooms, New Zealand spinach, parsiey, etc., give the best results.

31. Sow several rows of beans rather closely together so they can be easily protected in case of an early firest. Use water in the drill to hasten germination, and keep the ground around the plants stirred deeply.

25. The melon plants should be fed freely with inquid manures. First make some holes around the hills so that the material will reach the roots, then lay boards under the fruit. This will assure you much better melons.

Old Doc Lemmon.

### FRIDAY **SATURDAY**

5. Do not fail to keep up so wings of those crops that require seeding, such as beans, corn, cucumbers, lettuce, etc. If the weather is dry and hot, water the drill thoroughly. This should be done before putting in the seed.

12. Weeds!
We must make
war on them
now. This is
the time to kill
all obnoxious
growihs as
they are now
in tull development. Early
morning is the
best time to
destroy them,
a fterward s
raking them up
in the evening.

19. Keep a sharp lookout for caterpillars of all kinds. All these pests are very destruct-ive at this time ive at this time of year, but there is little excuse for their damaging anything as they are easily destroyed. Most easily done with a torch.

26. The planting season is again here. Exergines of the Exergine of the Exercise of the Exergine of the Exercise of the E

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A nitrate of soda solution is good to stimulate the growth of the crops



Prune the flowering shrubs as soon as they have finished blooming



Staking and tying the tall flowers is a necessary protective



The large tomatoes best for the main crob



Young seedlings may be transplanted into boxes now. Keep the surface of the soil well stirred



All nests of the tent caterpillars should A kerosene torch, or paper, be burned. may be used



Flower pots under the melons will help their ripening



Apples and pears can be made to bear extra choice crops when grown in the greenhouse

Whether in flower or fruit, the peach tree trained to a trellis under glass has a distinct beauty

The possibilities of growing fruit under glass are only limited by the space one can give them

Grape vines are set 4' apart close to the wall of the house. The wires are 15" from the glass

Yes, these are melons, real muskmelons, greenhouse grown. The nets prevent the fruit dropping prema turely



THE ART

of

GROWING

FRUIT

UNDER GLASS



August

### THE GARDENER'S CALENDAR

Eighth Month



Abundant watering of the roots is essential when evergreens are being planted



Gather and use the egg-plants while they are still young and full of juice



When the crop is over, dig the pea vines into the ground to enrich it



Slat stakes keep the runners of the bush limas off the ground

### **SUNDAY**

31. Buds will be forming on most of the green house chrysanthemums at this time and strong feedings will be necessary if you want highest quality flowers. Also spray occasionally with tobacco preparation.

3. Strawberry beds may be set out at this time, which will bear a full crop of fruit next year, Make certain that both the perfect and imperfect types are planted. This will assure proper fertilization of the flowers.

10. This is the time that cuttings should be taken of all the various bedding plants such as coleus, geraniums and alternantheras. These plants if carried in a cool green-house throughout the winter will make good stock plants.

17. If you want high-grade dahia blooms it will be necessary to keep the plants properly disbudded. This means a constant and constant and consistent pinching of the young growth in order to reduce the number of buds.

### MONDAY TUESDAY

This Calendar of the gardener's labors is aimed as a reminder for undertaking all his talks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier

4. Neglected ground that is intended for cultivation next year should be broken up. The proper forking or plowing with the subsequent harrowing will remove large quantities of the troublesome rye and twitch grass.

II. Melons ripening now should be kept sorayed with Bordeaux mixture to prevent blight. It is a good plan to piace small loads under the young melons to assure ripening. Allow the melon to leave the vine yountarily.

18. Roses showing a substantial growth should be encouraged by top dressings of bone meal or any good fertilizing agent. Though it does not improve the quality of the fall flowers it gives the plant more vigor.

24. It is advisable to have a small step-ladder or at least a box to stand on in order to get at the top of the poles when picking limas or other types of pole beans. It is usually at the top that the greatest yield is found. 25. Crops that remain in the ground such as Swisschard, parships, etc., should have a topdressing occasionally with a strong fertilizer to prevent them from becoming tough. Soluble fertilizers are more available.

5. Flowers intended for rutivation in the greenhouse this winter should be started now. Seeds of various annuals such as stock mignonette and snapdragon may be sown, or small plants may be purchased.

12. Bulbs for foreing in the green house should be ordered at this time. Boxes, pans, soil and other necessary materials used in the forcing of these plants should be made ready, as some of these bulbs are available now.

19. Don't let your flower garden run down. Keep the tall flowers staked and cut out all the dead flow ering stalks. Keep the edges trimhed and stir the soil on the surface This is as necessary now as in the spring.

26. Newly set out plants that are plants that are plants that are plants that are plants. The plants are plants. The plants are plan

### WEDNESDAY THURSDAY

Warm noon brims full the valley's cup,
The aspen's leaves are
scarce astir; Only the little mill sends 21 D busy, never-ceasing burr.

-Lowell.

21. This is an excellent time to over and prune the shade trees, as it is easy to see how the work should be done. Remove the limbs very close leaving no shoulders, and paint the wounds carefully. Make cuts clean.

28. Biennials such as foxglove and cupand-saucer, can be started from seed now It is good practice to sow quantities of perennials now, carry ing them over the winter in the coid-frame and setting them out in early spring.

6. Verctables of the different forcing types may be started for Freenhouse cultivation Tomatoes, cauliflower, letture, spinach, parsley, beans, Swisschard and New Zealand spinach are vegetables of easy culture under glass. 7 This is the time that special attention should be given to cabbe given the given to cabbe give

13. New lawns can be seeded down now. Failure with lawns is often due to the improper preparation of the ground and the meagre allot ment of seed. Sow grass will help to choke the weed growth. 14. Hedges of all types, evergreens that have been confined to a form, and various plants that are elipped, should be gone over now as growth is about to cease. This will be the final clipping and should be done carefully.

20. If you have a green-house make up a compost heap of all plants. Use top soil with a good sod growth adding manure and bone meal and stacking it up at a convenient point so that the green material will decompose.

27. Gather the onion crop now. When the tops have died down the onions should be pulled and left in the sun to dry; then the tops can be twisted off and the onion stored in a dry cool place until ready for use.

SEEMS like this Prohibition idee ain't limited just to people—even the sky's been dry since the first o' July an' the crops is in a bad way all through the county. Makes me think of a piece in our last week's paper 'bout the Indians down New Mexico an' Arizony way, an' how they holds a kind o' sociable on' dance so's the element'il treat 'em right an' give 'em a good harvest. 'Course, we couldn't do nothin' like that up here, for the folks is all old-line Methodists, an' they wouldn't stand for no worshippin' o' the sun an' the rain an' the south wind. But the idee ain't bad; I mean, the idee o' lookin' on the elements, the sun, moon an' stars, as sort o' gods rulin' our gen'ral well-bein'. To my mind they ain't no grander thing than the sun, nor more awe-inspirin' than a whackin' old thunderstorm at night, nor more helpful to a body's spirit than the stars, if ye'll really look at 'em. Call me an Atheist if ye want to, but I b'lieve they's a deal o' practical, workable religion, a lot that'll help ye be a useful. citizen an' a good friend, in the worship o' them Indians. It's kinder gettin' down to simple first principles, o' course, but it's sincere an' genuine—which some of our up-to-date religion ain't.

### **FRIDAY**

1. Early celery should now be ready for use. Banking this with earth is not advised on arvised on ac-count of the in-tense heat. It is best to use paper bleachers or boards for this purpose, blanching only

S. Evergreens may be planted at this time. These are plants that need a great deal of water, so it is advisable when resetting them to saturate the soil thoroughly to restore and encourage activity of the roots.

15. There is still time to sow some cool crops in the garden. Several sowings of peas should be made this month, also spinach, cress, radishes, lettuce, turnips, etc. If the ground is dry, water well before sowing.

22. This is the time to build cold-frames for the fall and winter. Brick or concrete is preferred but a substantial wooden frame will last some time. Next to the greenhouse the coldframe is the gardener's best friend.

29. Before cold weather look over the greenhouse, replacing broken glass, doing any necessary repair work Be certain the boiler is in working condition, particularly in a greenhouse that was closed last year.

Old Doc Lemmon.

### **SATURDAY**

2. Late celecry, cabbage, cauliflower and kale may still be planted. Use plenty of water when setting out fithese a habit of them to the manual water and the manual water and the manual water and the manual water are established.

9. Bay trees, palms, hydrangeas and other plants customarily used for plazza decoration are usually infested with various aphids and other insects. It is advisable to use tobacco sprays regularly as a preventive of these pests.

16. The cane fruits should be looked over at this time. Old shoots on the raspberries and blackberries should be cut out entirely as these do not bear again. Young, shoots for next year should now be tied firmly in place.

23 After gathering the peach of the peach of the spray the trees with Bordeaux mixtureto keep the various foliage diseases in check. Trees afflicted with the yellows should be cut down and burned to prevent the spread of the disease.

30. It is just as necessary to prume vines as it is other plants. All old and unproduce tive wood should be removed. This will give more room for the younger and more vicorous shoots. Now is the time for this work. 30. It is just



Dry onions in the sun, then twist off the tops and store the bulbs for winter



By breaking some of the roots you postpone the seeding of lettuce plants



Foxgloves, cambanulas and other perennials are started. from seed sown now



Do not fail to thin out those vegetables the seeds of which are sown directly in the garden rows



Seeds of cauliflower, lettuce, etc., for transplanting, can be started now in boxes in the greenhouse



Old advice, but good keep the ground well cultivated

# RESH BERRIES - WITH CREAM

Wherein the Wares of the Howling Huckster and the Avaricious Fruit Store Man Achieve that Elusive Perfection Through the Medium of the Home Garden

I N the planning of even a modest kitchen garden the desirability of the small fruits currants, raspberries, blackberries, etc.—is often overlooked. The thoughts of beginners especially are prone to center on vegetables, to the exclusion of the berries, which, while of perhaps less nourishing value, are nevertheless highly important articles of diet.

The requirements of these cane and bush fruits are not exacting. Any fairly sunny, well drained soil which will produce a good general vegetable crop will be suitable. Such necessary care as spraying, pruning, mulching, etc., is easily given and amounts to little enough compared with that which the regular vegetable garden demands.

As soon in the spring as the ground is dry enough to crumble is the time to plant. The stock should be ordered, therefore, early; but before deciding what to get you should look the ground over carefully and decide exactly how much space will be available. In doing this the following planting distances should be kept in mind:

Raspberries ought to be planted 3' or 4' apart in the row; blackberries and dewberries, 5'; currants, 4'; gooseberries, 5'. If only a single row is to be planted, perhaps along a fence or

at the edge of the garden, these figures will suffice. If, however, you decide upon two or more parallel rows, you must allow an average distance of 6' between the rows, to leave room for you to move about comfortably while attending to the cultivation, picking, etc.

All of the good nurseries supply varieties of small fruits in great numbers. It would be out of the question to set down here anything like a comprehensive list of these, but you will not go far wrong if you make your choices from the following:

Raspberries: The King (extra early); Cuthbert; Columbian; Reliance; St. Regis Everbearing; Cardinal; Palmer (black); Golden Queen (yellow). Blackberries: Mercereau (early);

Early Harvest; Early King; Snyder.

Currants: Perfection; Fay's Prolific; Lee's Prolific (black); White Grape.

Dewberries: Premo (early); Lucretia. Dewberries ripen somewhat earlier than raspberries, but in other respects are quite similar to them.

Gooseberries: Industry (English variety well suited to our climate); Houghton's Seedling: Downing; Golden Prolific.

A liberal amount of well rotted manure dug into the soil where the plants are to go will prove a paying investment for higher quality fruit. For blackberries and raspberries, too, you must provide stakes or some other supports.



Unlike the true cane fruits, currants bear only on mature and thoroughly ripened hard

The best red raspberries, when grown at home, lack the somewhat pithy character of those in market



Blackberries, as well as raspberries, must have a supporting trellis to which the canes can be tied. A good one is made of stout wooden posts with connecting strands of heavy wire



Heavy bearing bushes can re-

sult only when wisely selected and well cared for plants are

Black raspberries should find

a place in the small fruit border. Many prefer them to the red form

### September

### THE GARDENER'S CALENDAR

### Ninth Month



A garden bed where the late crops can be protected is a good investment



Good rutabagas must grow quickly. Nitrate of soda will stimulate them



Herbaceous plants may be moved more successfully in fall than spring

### **SUNDAY**

September blowes softe Till the fruite is in the lofte. -OldProverb

7. Do not stopcutting the grass until all grass until a long growth, which when carried over the winter will turn brown in spring and be hard to eradicate when the lawn is put in order.

14. This is one of the best periods of the year for seeding down new lawns, the reason being that most weed agrowth is over and the grass will get sufficient start to carry it safely through the trials of winter weather.

21. Do not netlect to sow down with rye and clover the vacant patches in the garden. Sowings can also be made between corn, cabbage and other crops, with the idea of remaining after these crops have been gathered.

28. Wire grass, rye grass and other heavy growing grasses and weeds grow very rapidly at this season of the year, and if allowed to overrun your garden they will be a serious factor to contend with next spring.

### MONDAY

1. The last sowing of peas should be made the early part of this month, using only the seeded type, which is quick and vigorous in growth. If the ground is dry, water the drills well before sowing the seed.

8. Melon frames and other garden accessories that will not be used again this sea-son should be repaired paint-ed and put away in winter storage. When well cared for they will last for several sea-sons of actual use.

15. Onions, parsnips, spinach and hardy crops of this character may be sown in the open with the open with the open with the winter. This can be easily done with a little protection, such as salt hay or similar material.

22. Celery should be banked with earth now. It is best if this is attended to frequently, as the soil should never be allowed to work its way into the heart of the plant. Hold the stalks together while banking them.

### **TUESDAY**

2. Prune all deciduous trees before the leaves fail, as it is much easier then to determine what part of the growth is to be removed. Cut the branches close, leaving no stubs, and paint the wounds immediately.

9. Vegetables should be should be started in the greenhouse mow for next winter's use. Cauliflower, lettuce and string beans should be sown about every three weeks. To martoes and Swiss chard need but one sowing.

16. Evergreens that are
being transplanted now,
or have been
transplated recently, must be
kept well watered. Although
top growth has
terminated,
these plants
are making
considerable
root growth
even now.

23. Mushroom beds may
be started in
the setarted in
the started in
this time Be
sure to ge
tresh droppings
for this purpose, and by
all means use
new culture
spawn, which
is of high quality and the
most dependable.

30. It would not be amiss with late growing crops such as celery, rutabaga, carrots, parsnip and spin a ch, or other crops still bearing, to apply frequent dressings of manure and occasionally nitrate of soda.

### WEDNESDAY

3. Do not neglect the cane fruits, if they have not already been attended to. Go over them carefully, removing the old canes at the ground line and tying the young, vigorous shoots into position to prevent damage by storms.

10. This is peony month in the flower garden. If you want good results next year, it will be necessary to overhaul the plants now, digging up the clumps that are too large, cutting them into four pleces and resetting.

17. Permanent pastures for grazing purposes shutches sown at this time. Bear in mind that if properly put down, a good pasture will last for many years. Do not under any circumstances plant inferior seed.

24. Cold-frames that can be protected throughout the winter should be used for sowing hardy vegetables like cabbage and cauliflower with the idea of carrying them over and planting out early in the spring.

O'er yon bare knoll the pointed cedar shadows Drowse on the crist. gray moss.

### THURSDAY

4. It is not too lafe to start a strawberry bed for next season, if potted plants are used for planting. Use pistillate and staminate types. Put in plenty of manure and a fair amount of bone meal to stimulate strong, rapid growth.

11. Where heated frames are available are available for teaching the following the fol

18. Attention should be given now to builb planting for this season. If not already placed, orders should be sent inimmediately, as early planting means better results. It gives the builb a chance to form a root system.

25. It might be advisable to build a fire in the greenhouse occasionally. Cold nights and hot days are productive of mildew. To overcome this have the pipes painted with a paste made from flowers of sulphur and water.

### FRIDAY

5. The orchard that is
not growing satisfactorily can
be improved
wonderfully by
the sowing of
cover crops,
and subsequently turning them under
as described on
another page.
No orchard
should be
grown in sod.

12. The flower garden should be given a final clean-up for the season. The walks should be properly edged, all weed growth and the old stalks of plants removed and burned. This will destroy many insect larvae.

19. Carnations that were planted out may now be put in the greenhouse. The glass should be shaded slightly for several days, or until the roots have again become active. Overhead spraying is helpful.

26. Before the leaves begin to fall, look the garden and grounds over carefully with an eye to changes in their arrangement. The reason for this, and how to go about it, are detailed on another pagein this issue.

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Old Doc Lemmon.

### SATURDAY

G. Evergreens that have been confined in growth, hedges and various other plants that are dipped frequently should be given a final clipping at this time. Do this before the follage turns on the decid uous plants.

13. Do not neglect to get cuttings of the bedding plants before they are destroyed by frost. This applies to chrysanthemums, coleus, etc. Each variety should be kept separate, as mixed colors are disappointing.

20. Chrysanthemums and other similar plants that are in bud should be fed freely with liquid manures of different kinds. This operation, however, must be discontinued as soon as the buds sho w color and signs of opening.

27. Just as soon as the foliage turns yellow on deciduous plants it is safe to start transplanting; in fact, the earlier in the fall this is attended to the better, as the roots will take hold before cold weather.

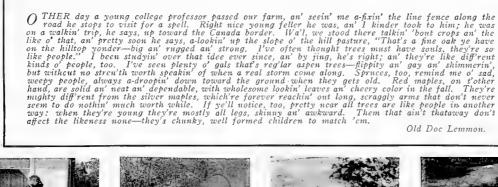
Sweet peas for winter bloom in the greenhouse should be planted now



that have attained the proper size and best quality



Boards held with stakes may be used in blanching the early celery crop



29. A great deal of our so-called winter losses, especially with evergreens, is the result of these plants being allowed to become bone dry at this season when they are developing a root system to carry them over winter.



The last of the season's clipping of the formal evergreens may be done during September



The time is The time is approaching to plant hardy bulbs outdoors



Start this month to hill up the late celery plants with earth

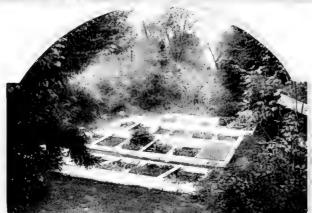


Lettuce may be planted in the coldframe to yield a post-season crop which will repay the effort

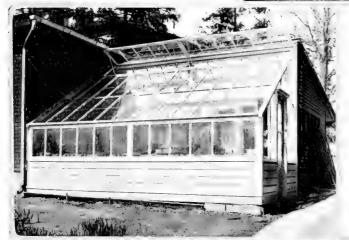


FOR THE FLOWERS THAT GROW IN HEAT

The small greenhouse can often be built-on if its architectural treatment conforms with that of the dwelling. In such cases it is heated by in extension of the regular house system

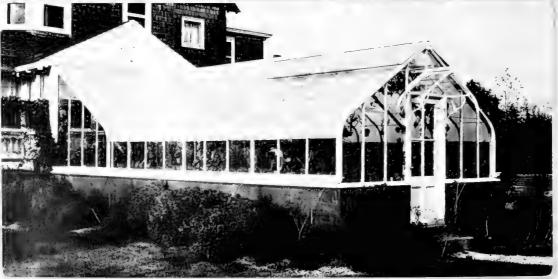


Cold-frames derive their stimulating warmth from the sun's rays. Young plants started in the house are moved to them for "hardening off" preparatory to setting in the open garden





A simple type of lean-to greenhouse, showing the proper type of ventilator. For best results, the lean-to should be heated at night and on cold, cloudy day.



The lean-to above is built against a concrete wall. It is partly sunken and faces the south, to catch and hold the maximum amount of sun warmth

A regular greenhouse, even though small, can be adapted to growing any kind of hothouse plant. This is a "unit" house and can be added to if more space is desired

### October

### THE GARDENER'S CALENDAR

Tenth Month



Carrots and other roots should have their tops removed before storing



Changes in the perennial flower border should be made during this month



If the last clipping of evergreens has not been finished, there is still time



Label the gladioli bulbs before storing them away for the winter

### SUNDAY

### MONDAY TUESDAY

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5. The first few days in the house are the house are the following from the following from the first from the f

12. Start mulching rhododendrons with leaves or manure. This is not only for the purpose of protecting the roots, but it will also furnish the plants with considerable nourishment. In the spring the leaves may be dug under.

19. A n y changes in the flower borders should be made now, as the different types of flowers may be easily determined at this time, even by the beginner. Old plants that are not yielding should be divided.

26. Potatoes and other root crops stored in the cellar should be looked over occasionally to prevent damage by decay. Remove all decayed or soft, spongy tubers, because they are sure to infect other sound ones.

6. In case of a severe frost being threatenbeing threatenbeing threatenbeing threatenbeing threatenbeing threatencover he flowcrs of outdoor
chrysanthemu ms with paper or other
material at a tright. This
will prevent their being damaged and add to their life.

given are, of course, for an average season.

13. All shallow rooting crops should be afforded the protection of a winter mulch of manure. This applies to strawberries, raspberries, blackberries, etc. With strawberries manure should not touch the crown.

20. Cairots, beets and other root crops should be gattered and after the tops are removed they can be stored intrenches out-of-doors, or in a cool cellar. If stored out-doors, they should be protected from the frost.

27. Hydrangeas, bay trees and other decorative plants in tubs and boxes should be stored away for the winter. A good cellar which is not too warm and is fairly light makes a good storage place for this class of material.

### WEDNESDAY

1. Don't neglect to get thyacinths and other early flowering types of bulbous plants bowed up or planted in pots preparatory to forcing them in the greenhouse. They should be buried out-of-doors to facilitate rooting.

S. Hay thrown over tender garden crops such as egg-plant, peppers, lettuce, will protect them from damage by light frosts. It must be removed during the day and applied only at night. Do not use enough to break them.

7. Dig up and store all tender bulbous plants such as gladioli, datlias, etc. These must be stored in sand or sawdust in boxes and kept m a cool cellar. Dry ness of packing material and surrounding air is essential.

14. This is an excellent time to put time to execution any changes in your garden, such as soo doorders, dwarf hedges, trellists for frut plants, changes in watering systems, etc. A good map of the grounds will help.

21. A few roots of parseley, planted in pots and placed on the kitchen window-sill, will keep any or d in a ry or d in a ry family supplied with an abundance of this valuable green for garnishing and other kitchen u ses all winter.

15. The plantings of new trees may be attended to at this time. With the dry summers which have prevailed for the past few years, fall plantings have given better results than where work of this sort was done in spring.

22. Don't neglect to much heavily with manue or any loose material, all evergreens that have been transplanted during the current year. The first winter is the critical period with these trees, and they need care.

28. When husking coin, any exceptionally fine ears should be set as de and saved for seed next year. The ears should be hung up in some dry place where the mice will not be able to reach them. Suspending by wife is good. 29. After the foliage falls all fruit trees and other free cidulations to the attacks of scale should be sprayed with any of the soluble oil mix tures. Lilaes ate especially susceptible to attacks of the scale pest.

IT makes me smile sometimes to hear city folks talkin' 'bout how they'd like to go to farmin'—"it's such a easy, restful life!" Durn few of 'em seems to realize that a real farmer gits up at four-thirty or five A. M. the year 'round, an' works till dark. Sure, I'll 'low they's breaks durin' the day—restin' the team when ye're plowin', settin' by the spring under the big maple an' wipin' off the sweat when hayin' time comes, talkin' crops an' politics 'side the road when the R. F. D. feller comes with the mail. If 'tvearn't for them interruptions I don't b'lieve us farmers could git along, we got to have some change from hoein' potatoes an' hollerin' "WHOA!" An' daggone it, a man needs a chanct once in a while to chaw on a straw an' calc'late. They's lots o' things to stop an' figger on—how much of a cut to make in the woodlot next winter, when the drought's a-goin' to break, whether them two Holstein heifers o' lake Hopper's is really worth a hundred apiece, or who's to be the next postmaster now that old Bill's dead an' gone. Reckon mebbe it's because they sees us a-chawin' an' calc'latin' an' a-gossipin' round the sand box in the store at the Corners that city folks think we ain't got much work to do, or else are just plumb lazy. But just let 'em try farmin' onct, thebselves!

—Old Doc Lemmon.

### THURSDAY

2. If you have heated frames of any kind, why no use them for the forcing of quek maturing vegetables such as radishes, spinach, beans, etc. They may be sown now, to yield crops during the winter months.

9. Celety must be kept hilled. I fold the staiks lightly with the hand to prevent dirt from getting down into the heart. Keep milling as they grow, since it is contact with the earth that gives celery flavor.

about some bulbs for house for c.ng to bloom about Christmas time? Paper whites. Fottbaker tulips, narcissus and various other early forcing bulbs may be grown successfully in the house.

23. Start now to collect all the old leaves, bringing them to one point. Do not ever burn them, because, when rotted, they are one of the best of all fertilizing material. Store them in some obscure, sheltered couner.

30. This is an excellent time to destrive a solution and the solution and the white pines and other evergreens. A thoro ough spraying with a strong to-bacco and soap mixture will free the trees from this pest.

### FRIDAY 3. Don't fail

3. Don't fail to make arrangements to pick the fruit and store it properly. The lest method is to wrap each fruit separately in tissue paper, storing them in boxes in a dark, cool place. Be careful that they are not bruised.

10. Cauliflow-er just starting to head up should be lifted should be lifted very carefully and placed in frames where it will mature properly. The plants may also be planted in tu bs and moved to a barn, garage or other frost-proof place.

17. Don't neglect successional sowing of the vegetable crops planted in the greenhouse. Lettuce, cauliflower, spinach, radishes and beans require seeding about every two or three weeks in order to insure a supply.

24. Don't forget to plant a few of the more hardy types of narcissus in some secluded corner where they may go on naturalizing and spreading by themselves. In a few years e n o I m o u s masses are possible from small plantings

31. Arrangements should be made to protect the roses, the best method being to do them up in straw overcoats. In addition to these, earth should be banked around the plants so as to throw the water away from them.

-Old Doc Lemmon.

### SATURDAY

4. Flower beds composed of tender plants can be made to last considerably longer by a slight covering to protect them from frost. An old sheet or blanket of any kind, with a few surpoits, may be used for this purpose.

11. Why not have some fruit trees around your garden, preferably on the north side? Or perhaps you have room for a small orehard. This is the proper time to set the trees out, except the plums, cherries and other pit fruits.

18. Stop feeding the chrysanthe-mums just as soon as the buds show color It is a good practice to shade the greenhouse sightly. This will give for-siderably longer petals and larger flowers.

25. Shut off and drain all irrigating systems and experience of the drain of the dr

I love to see a bough across the moon When. Ille a scarlet lantern of Japan, Low in the east it hangs Pendant, obscured, and dim. William Powalas

William Douglas



Dig up and store all the tender bulbous plants such as cannas, dahlias, etc.



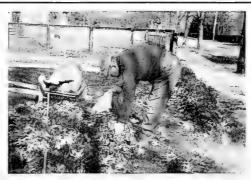
Bulb planting should be started now, and continued until frost comes



The root crobs can be stored in boxes and covered with dry sand



Greenhouse work gets under way month, in preparation for the winter blooming season. The sweet peas should be kept cultivated



The collecting and saving of autumn leaves should not be overlooked. When rotted, they make excellent mulching and fertilizing material



Dahlias, too, to be clearly labeled when taken from the ground



I dry trench will protect the cabbages if they are turned head down and covered with earth

The larger root crops may be packed quite closely in an outdoor trench and protected with hay

Before storing the roots in trench or cellar, break off their useless tops and discard them





Green peppers need no packing material Simply store them in shallow boxes or on a shelf





If dry earth is used in the storage of parsnips there will be less shriveling of the crop



Wrapping tomatoes in paper will enable you to keep them indoors for several weeks

# WINTER BEDS for SUMMER CROPS

Another method of keeping tomatoes for fall and early winter use is to pack them in hay



### November

### THE GARDENER'S CALENDAR

### Eleventh Month



in the orchard should be burned to destroy insect eggs, etc.



Now is the time for the final cleaning up all garden and grounds trash



Whatever changes are uncompleted in the perennial border should be made

### SUNDAY

30. All ornamented garden furniture, settees, etc., and all melon frames, bean poles, tomato trellises and such planting accessories, should now be stored away for winter. Paint those that require it.

quire it.

MONDAY

TUESDAY

I saw old Autumn in the misty Stand shadowless like Silence,

listening
To stlence, for no lonely bird would

sing Into his hollow ear from woods

Into ms nation was product for form,—
Sor lowly hedge nor solitary thorn,—
Shaking his tanguid locks all dewy bright
With tangled gossamer that fell by night,
Pearling his coronet of golden corn.
—Thomas Hood.

2. It is now time for all fall bulb plantings to be completed. Always plant four times as deep as the diameter of the bulb, mound the earth up so as to shed water, and mulch the surface well with manure.

9. Carnation plants should be kept supported and properly dispended. Never allow the benches to accumulate green mould. The surface of the ground should be kept stirred. Top-dress with sheep manure.

16. Primula, cyclamen, cineraria and other potted plants that are custom arily growninframes may bebrought in side now. Frequent feeding with liquid manuresis very helpful to their continued success indoors.

23. Apples, pears and other stored fruit should be looked over occasionally for any decayed ones which would soon destroy others. When the fruit swrapped separately in soft paper this danger is lessened.

3. Garden changes should be made now before the ground is frozen, to prevent settling and other irregularities in the spring. Plants disturbed now are more likely to live than those moved in midwinter. 10. Swect peas sown now and properly protected over the winter will give quality flowers next year. A frame made of boards and covered with manura after it is put in place will be an excellent protection.

17. Tender roses and all tearoses should be strawed up now to protect them. Putting earth around the bases of the plants helps shed water and will serve to protect the lower part of the plant from damage.

24. At this time all hard-wooded forcing plants such as iliacs, cherries deutzia, wistaria, etc., should be lifted from their places about the grounds and placed in tubs or boxes for winter forcing.

4. Do not neglect to make successional sowings in the greenhouse of vegetable crops such as beans, cauliflower, beets, carrots, lettuce, etc. The secret of success is sowing in small quantities and frequently.

11. If you have not already stored your loot crops for the winter, they should be attended to at once. Burying the m in trenches outdoors with the proper kind of protecting material is the ideal storage.

18. Manure for the garden should be purchased now. For garden purposes it improves greatly with age and handling, and it is always possible to get manure in the fail, while next spring is uncertain.

25. Young fruit trees had better be protected now from the attacks of field-mice, rabbits and other rod-dents which girdle the trunks. Tarred burlap or paper collars placed above ground will help.

WEDNESDAY THURSDAY

This Calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates

given are, of course, for an average season.

6. Poinsettia.

5. Ill-kept gardens breed diseases and insects. Clean up all refuse and burn the sauks and other material likely to decay. Thoroughly sterilize the ground by the application of lime or deep, c on s is tent trenching. 6. Poinsettia, lilies and other heat - loving crops intended for Christmas bloom must be forced rapidly. A temperature of 75° or even 80° w h e n pienty of moisture is available, will be beneficial to them.

19. Standard

19. Standard roses are among the hardest garden subjects to protect. If strawed in they must have beavy stakes or they will become to pheavy. Laying the stems down and covering with earth is the best.

26. Boxwood and other tender evergreens should have their winter protections applied now. Burlap covers that are supported so as not to come in actual contact with the plants are the best material for this.

DOWN in the medders back o' my barn they's a kinder swampy corner, all hummocky an' full o' ev'ry sort o' long grass, which fair turns blue with fringed gentians in the fall. For a couple o' weeks, if the hard frost holds off, 'Lica goes down there ev'ry few days an' picks a pitcherful, but we never gets tired of 'em. They's so durned purty an' blue—same as the sky; an' they's about the last o' the year's wild flowers, too, 'cept a stray vi'let here an' there. Them late vi'lets is the blue kind, if ye'll notice—le reckon that's the November wild flower color, somehow, same as they's others for the other seasons. In the spring it's white an' yaller, pink an' light blue, mostly, like the weather. Then as the sun gets hotter the colors change an' come stronger an' deeper, 'til along in August ye see the scorchin' red o' the' cardinal flowers. After that they begins to cool off ag'in; more yallers, the blues an' purples o' the asters, the browns o' the grass an' leaves, an' fin'ly a patch o' blue at the very end. Blue's a good color any time—soft an' restful like an' cool. But they ain't no blue quite as good as them little fringed gentians down in my swamp medder, with the rusty dead grass all 'round an' the dark green cedars along the fence.

—Old Doc Lemmon.

12. There are a number of popular perennials which force well. Clumps of coreopsis, bleeding heart, Shasta daisy, dicentra, etc., may be lifted, potted, and then stored outside toripes properly before forcing. 13. Celery must be kept banked property to protect the hearts of the plants from damage by severe frost. In fact, it can be stored in trenches any time now for use during the late fall and winter months.

20. Freesias, French grown narcissus, early lilies and all bulbs of this type can be brought into a higher temperature now. After the buds show, free applications of liquid manure will benefit the roots.

27. Low spots in the lawn or irregularities in thesurface may be top-dressed now to overcome these good soil, and when not more than 2 inches of it is applied the grass will come through all right.

7. It is perfectly safe to plant asparagus in the fail provided you make some effort to protect it during the winter. Pull plenty of earth up over the plants and coverthem well with decayed manure.

FRIDAY

14. Goose-berries, cur-rants, raspber-ries and black-berries are sur-face rooters. A heavy winter mulch of man-ure will build up the fertility of the soil and help to protect the roots from damage by the frost.

21. House plants of all kinds should be given a little extra care at this time. Sponge the foolage with soap solution, scrub the green sum off the pots and top-dress the soil in them with sheep manure.

28. Rhododen dendrons should have their roots protected by a heavy mulch of leaves or litter. Some branches of pines or other evergreens thrust into the ground between the plants will prevent sun-scald.

8. The strawberry bed should be mulched with well - rotted manure; this not only protects the plants but prevents the deterioration of the soil Straw to protect them from the sun should be added.

SATURDAY

1. It is not too late to start seeds of some of the more rapid - growing annuals in the greenhouse for winter flowers. Of these may be mentioned calliopsis, candytuft, ragged sallor and the ever popular mignonette.

15. One of the hardest plants to protectduring cold weather is the French Globe artichoke. If covered too muchit decays, so use a frame to prevent the covering material from actually resting on the plants.

22. Sweet peasin the greenhouse should be fed freely with liquid manures. The first flowers to appear should be opinched off to conserve the plants with the strength. Keep the atmosphere dry at night.

29. Most smooth-barked trees and practically all fruit trees are subject to the attacks of San Jose scalc. These trees should be sprayed with one of the soluble oil mixtures which can be purchased.



Liming the garden in the fall will im-prove the produc-tiveness of the soil



Dead vines from the vegetable garden may be added to the compost heap



When the bulbs are well rooted they can be brought into the house



well developed bulb with the roots spread, ready to force for winter bloom indoors



A good bonfire of the odds-and-ends such as cornstalks, dead branches, etc., is a great help toward general garden cleanliness and insect pest control



Burlap covers should be placed over the boxwood as winter protection. These bushes are not really hardy north of New York



Succession plantings beans are now in order in the greenhouse. Plant in rows 2' apart

# THE LAST RITES for THIS YEAR'S GARDEN

Putting on the Winter Mulch, Cleaning Up the Odds and Ends, and Generally Preparing the Grounds and Planting Plots for Freezing Weather



Jackets of clean, long rye straw tied about tender roses will protect them from winter injury

WHEN every frosty morning finds fewer leaves clinging to the already barren looking trees, and fewer of the garden's last lingering flowers, it may seem to the uninitiated that Nature has about completed her year's work; that things are drawing to a close and that there is little or nothing more doing.

But "things are not what they seem." For every leaf that drops, you will find, if you look closely, a new bud dwelling under the little brown overcoat that will protect it through the winter. And down under the fallen leaves that have blown about and caught in masses among the dead stalks of the biennials and perennials, and in every nook and hollow in woods and swamp, you will find old roots or little seedlings a few weeks old, or bulbous plants such as Jack-in-the-pulpit or Solomon's Seal and the tropical looking "skunk cabbage," tucked away safely for the winter. Every hedgerow and field is full at this season not only of interest but also of information; of lessons which the wideawake gardener can hardly help taking to heart,

> The winter ground mulch is a necessity for many shrubs to prevent alternate freezing and thawing

and which will give him many good pointers for the more artificial work to be done at home. Hardly a move that Nature makes in swamp, field, woods or by the roadside that does not hold a kernel of information for the open eye. And that, of course, is the only kind of an eye for a good gardener to carry about with him!

There is, however, one thing in which the gardener can make a decided improvement on Nature's methods: that is, in the matter of garden sanitation. For the old Dame herself does not worry much about insects and diseases, trusting rather to the survival of the fittest to keep things going. What the gardener may think the fittest from his point of view, however, is often the vegetable or flower which proves especially susceptible to injury from these sources. Therefore, if he would succeed with them, artificial assistance is necessary—and cleanliness has proved as desirable in the garden as it is in the home. The great majority of insect and disease troubles are carried



Evergreen bough as a winter protection for perennial beds or even shrubbery plantings can often be used. They should be placed on the south as well as the north sides, to prevent premature thawing





With slender evergreens, much of the breakage caused by snow can be avoided by tying

over from year to year in the form of dormant or hibernating life or in eggs or disease spores that find a lodging in the fallen leaves or the old stalks, flowers or fruits in the garden and scattered around the grounds.

One of the most important things to be attended to, therefore, in the final garden cleanup is to make a careful search for any traces of disease and for every possible hiding place for hibernating insects. All suspicious material should be carefully gathered up and burned. One of the greatest mistakes that can be made is to use all the late garden refuse indiscriminately for the compost heap, as is often done. A general fall pruning, with such sanitation in view, will often prove a great help in controlling diseases of all kinds. It will not take long to go over the fruit and ornamental trees, shrubs and other woody growths, and cut out and burn all suspicious looking branches.

After the ground freezes the winter mulch of dead leaves, straw or well rotted barnyard manure should be applied to the perennial plantings.

Do not apply the mulch until the ground is frozen. Its purpose is to protect from sun,

### December

### THE GARDENER'S CALENDAR

Twelfth Month



twigs interior and small branches of the peach trees should be thinned out



A thick covering of leaves will prevent frost getting into the celery trenches



All nests of caterpillars and other harmful insects should be destroyed now

### SUNDAY

I stood and watched by the window The noiscless work of the sky, And the sudden flurries
of snowbirds
Like brown
leaves whirling by.

—Lowell.

7. Trees that are subject to scale insects of a line of the soluble oil mixtures. Fruit trees of all smooth-larked trees are susceptible.

14. Asbestos torches, or torches made of burlap and soaked in kerosene to make them inflam mable, should be used to go over all the trees and destroy wintering over nests of caterpillars and other pests.

21. Melon frames, tomato trellises, garden seats and other wooden garden material should be pointed. Use good paint, and where necessary apply two coats. This is considerably cheaper than constant renewals.

28. Fruit trees, and especially small ones, should be protected from rats, rabbits and other rodents. Ordinary tar paper wrapped around the stem from the ground to a height of 15 inches is sufficient.

### MONDAY

1. All tender l. All tender evergreens that require protecting should be attended to at once. Pine boughs, cornstalks and other coarse material can be used to prevent sun seald. Manure mulches are best for the soil.

8, All the garden tools and implements should be thoroughly cleaned, coated with a cheap oil and put away for the winter. Those that are in need of repair should be attended to now while outdoor work is slack.

15. Successional sowings of those crops in the greenhouse that require it, such as lettuce, beans, cauiflower, spinach and radishes, should be made, Rhubarb and endive may be started under the benches.

palms and other house plants should be top-dressed occasion ally with some of the concentrated plant foods sold for the purpose. Keep the surface of the soil loose ned so that no green scum forms.

29. The planting of deciduous trees and shrubs may be continued just as long as the as long as the weather permits. Mulching heavily immediately after planting will prevent the penetration of frost if it should come soon.

### TUESDAY

2. All the various types of bulbs for winter bloom may be forced in the green-house now. It is bestto bring the bulbs into the heat in small quantities so as to keep a continuous supply of blossoms coming along.

9. Grape canes can be cleaned up and pruned at any time now. It is a good practice to remove all the loose bark and wash the canes with a good strong soap insecticide or spray them with an oil spray to destroy larve, etc.

16. Rhubarb may be forced in the cellar or attic of the dwelling by planting good-sized clumps in barrels or boxes and placing them beside the furnace or chimney. The soil should be kept moderately moist,

23. The foliage of house plants must be kept free of insects. Sponging the leaves with a soap solution to which a good to barco extract has been added will destroy white scale, red spider, mealy bug and green fly.

30. M us hrooms may be
grown in any
ordinary cellar; the important point
is fresh stable
droppings for is tresh stable droppings for the bed. Don't let them ever ret really dry. Use new culture spawn, as it is more certain than the old kind.

### WEDNESDAY

3. Hyacinths, Chinese sacred lilies, paper, white narcissus Soleid'Or, etc., may now be forced in bowls of water for the house. Place the bulbs in the cellar, for about two weeks after planting so as to form roots.

10. If cold weather prevails it is well to look over the vogetable trenches to make sure that the frost is not injuring the roots. Plenty of leaves piled on top is the best protection for the winter.

17. Nectarines, peaches and grapes which are forced under glass should be pruned and cleaned by washing them with strong insecticides. Remove some of the top soil afterward and replace it with fresh earth.

24. Chicory is one of the best winter call ad plants. It can be forced in any ordinary cellar by planting the roots in boxes and keeping them dark. They can also be grown outside in trenches filled with hot manure.

31. Poor lawns should be top-dressed, using a come screened top soil with about 20 per cent bone meal and wood as hes may be applied to the lawn liberally now, with some grass seed.

### THURSDAY FRIDAY

5. Do not neglect to provide for those friends of the garden, our birds. Feeding boxes may be placed where the birds will be out of the reach of cats. Suet tied to the branches is attractive to several species. 4. All new plantings should be heavily mulched with manure, This not only serves to protect the plants by reducing the penetration of the frost, but increases the fertility and productiveness of the soil as well.

il. Frames in which semi-hardy plants are being wintered, or frames that are used as growing mediums, should have some kind of covering. Loose hay may be used, but the best covering is jute mats.

18. Plants that are growing in benches, in the benches, in the state of the state o

25. The value of the land scaping departments maintained by the big nursery men should not be overlooked. They are prepared to plan all sorts of plantings for you and substituting soft costs, etc.

12. Look over the tender tender bulbs that are stored for the winter, such as dahlias, can nas, gladioli, etc. Frost will surely destroy them, while too much heat or moisture will start them into growth be fore planting time returns.

19. Boxwood must be protected else it of the test of the protect o

26, This is the time to plan and even install so me sort of irrigating system in your garden. Don't wait until summer for dry weather is taxes and you had best be ready for it well in advance of its arrival.

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SATURDAY

6. Low spots in walks and drives that are invariably wet should be raised to she water; or if the earth is taken out and the road be d filled with cinders it will help to make them dry and passable in bad weather.

13. Do not scrape the bark on trees below on trees destroy insect pests—it is impossible to get into the crevices where insects hibernate, and in many cases the tree is injured by romoving the green outer bark. Use stiff brush.

20. At this season of the year it is necessary to fertilize indoor cucumbers and tomatoes to assure fruit O ollect the appoon and distribute it to the other blossoms with a menel's hair soms with a camel's-hair brush.

27 Vegeta-bles of all kinds that are stored in cel-lars should be looked over with the pur-pose of remov-ing any de-cayed tubers there may be. A few bad ones will soon cause considerable damage to the rest.



Tree planting may be continued late into the fall. Only solid freezing slops it



To insure fertilization of greenhouse tomatoes the pollen is transferred with a brush



A spade is used to lift and divide the root umps of various percunial flowers clumps

PEARS to me like Chris'mas in the city must be a kinder gloomy time 'side o' what it is out here in the country. I hear as how they ain't no sleighs no more in the big towns like N' York, Boston an' Chicago—only autymobiles, an' subways, an' the like o' that. Shucksl—what's Chris'mas without sleigh-bells a-jinglin', an' snow all white an' sparkly along the road, an' big birch logs a-roarin' in the settin' room fireplace? Somehow I reckon city folks must find it kinder hard to git real Chris'mas when all they can see out their winders is rows an' rows o' stone houses all just the same, gutters full o' dirty gray slush, an' pavements all wet an' sloppy without even a foot o' clean snow with a rabbit track runnin' across it. Chris'mas ain't no day to spend indors, nor to uade in mud when yee out. It's a day to go sleigh-ridin', or skatin' on the ice-pond, or zippin' down Kellogg's Hill on a big twelve-passenger bobsled, with somebody standin' at the Corners to keep teams from turnin' in sudden from the side road just as ye come kitin' along. Ves, an' by crickey Chris'mas ain't the time to wear your becole's all day, neither, fer a couple o' hours, anyway, ye want to wear felt boots, an' a fur cap with ear-muffs, an' a pea-jacket, an' a red muffler, an' mittens—good thick woolen mittens with wristlets to 'em.

—Old Doc Lemmon.

-Old Doc Lemmon



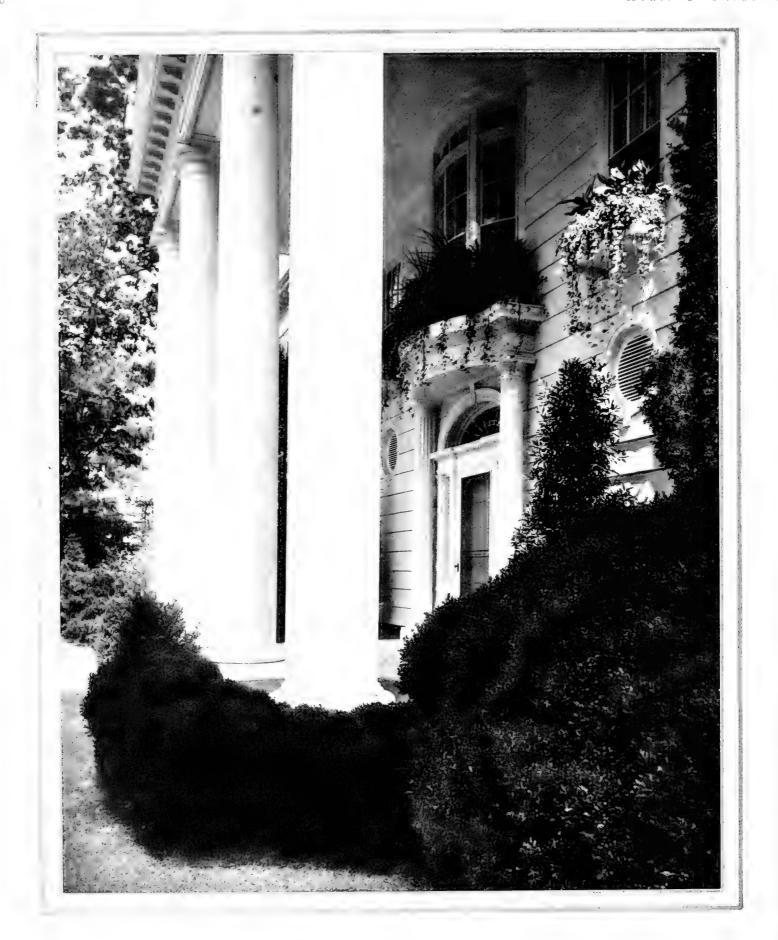
Chicory is one of the few vegetables which can be grown under the greenhouse benches or in the cellar of the dwelling



Bulbs for indoor bloom should be forced in the dark for at least two weeks before bringing them into the light



The general rule is to save the dead leaves for mulching, etc., but if they must be burned, spread the ashes on the lawn



# THE CHARM OF OLD BOXWOOD

Boxwood has been called the aristocrat of hrubs. Certainly it has the mellow charm that one associates with an old aristocrat. We associate it with the old-fashioned garden. Today it is in constant demand for giving dark, low accents to a lawn or, as in this instance, for helping to reconstruct the atmosphere of a country resi-

dence in the Georgian style. Old boxwood commands the high price commensurate with its scarcity, but into many gardens, where price is not considered, whole hedges and plantings of box are moved from old gardens. The box planting here is on the place of Mrs. J. W. Harriman, at Brooksville, L. I. Alfred C. Bossom, architect

### HOUSE & GARDEN'S GARDENING GUIDE



A Condensed Ready Reference for the Year on Culture and Selection of Vegetables, Flowers and Shrubs and for Planting, Spraying and Pruning



SHRUBS FOR EVERY PURPOSE
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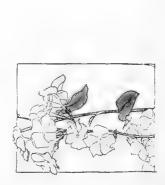
			SIIROD	O TOR LVI	EKY PURPOSE
SHRUB	COMMON NAME	HEIGHT	COLOR	SEASON OF BLOOM	DIRECTIONS
				For Masses and	Borders
Buddleia Calycanthus Floridus Clethra Deutzia Exochorda grandiflora Forsythia Lonicera tartarica	Butterfly shrub Strawberry shrub Sweet pepper bush Deutzia Pearl bush Golden Bell Tartarian Honeysuckle	6'-8' 4'-6' 5'-7' White 5'-6' 4'-5' Yellow White, pink 4'-6' White, pink, yellow,		July to frost May July-Aug. June May-June April May-June	A new flowering shrub, but one of the best; sunny position and fairly rich soil. Flowers are delightfully fragrant. One of the best of the smaller shrubs; very fragrant. Very free flowering; a great favorite for grouping. Good for cutting; best effect obtained through massing with other shrubs; charming flowers. Large yellow flowers blossom before the leaves appear. Most striking when clumped; strong grower; free blossoming.
Philadelphus Prunus Rhus Ribes Spirea Viburnum Vitex Diervilla	Mock-orange Flowering plum Sumach Flowering currant Bridal Wieath Snowball Chaste Tree Weigela	6'-10' 8'-10' 15' 4' 4'-6' 12' 5'-6' 6'-8'	red White Deep pink White Yellow White White Lilac Red, white, pink	June May July-Aug. April-May May-June May-June Aug-Sept. June-July	Profuse bloomers; a valued and favorite shrub. Flowers of a beautiful shade. Suited for damp places; brilliant in the fall. Fragrant; nice foliage; grows well even in moist spots. A shrub of exceptional gracefulness. There are many varieties; each has some good point. Graceful; long spikes; flowers late in summer. Of robust habit, blooms profusely, and easy growth.
				For Individual	Specimens
Althea Acer Japonica Aralia spinosa Baccharis Cercis Chionanthus Cornus Rhus Cotinus	Rose of Sharon Japanese maple Angelica tree Groundsell tree Judas tree White fringe tree Dogwood Smoke tree	8'-12' 6'-10' 10'-15' 10'-12' 10'-12' 8'-12' 15'-20' 12'	Rose, white Foliage, various White Rosy pink White White, red Smoke colored	AugOct.  Aug.  April-May June May July	Among the best of tall shrubs; very hardy. Leaves of many distinct shapes and attractive coloring, especially in early spring. Unique tropical looking. White fluffy seed pods in fall. Flowers before leaves appear; very attractive. Very distinctive and attractive in appearance; flowers resemble fringed decoration. Not symmetrical in shape but very striking; foliage highly colored in autumn. Very distinctive; flowers in feathery clusters.
	,			For Hedges an	d Screens
Althea Berberis Crataegus Hydrangea paniculata Privet	Rose of Sharon Japanese barberry Hawthorne Hydrangea paniculata Privet Japan quince	8'-12' 3'-4' 12'-15' 6'-10' To 8'	Rose, white White, red White to rose Bright scarlet	AugOct. May-June AugSept.  Early May	See above; plant close, 15" to 18".  Absolutely hardy; foliage light green, brilliant in autumn with scarlet berries.  Very attractive; many different forms; long lived. Colored fruits.  Color changes; very hardy; one of the best late flowering shrubs; enormous flower panicles  Most popular formal hedge plant; plant close, 8" to 10"; prune to shape frequently. New varieties hardier than California.  Set 15" apart; makes a dense hedge; requires a little pruning.  Plant 1½' to 2' apart; very graceful in formal hedge; especially for boundary lines.
Spirea Syringa	Spirea Lilac	6′-8′ 15′-20′	White White, pink, lilac	May-June May-June	Plant 2' to 3'; very fragrant; good for along walls, etc. Japonica latest blooming.
				VINE	S
VINE	COMMON NAME	FLOWERS .			REMARKS
Actinidia	Silver vine	Whitish, with purple centers; A. Chinensis, yellow			Very rapid growing with dense foliage; good for arbors, trellises, etc. Edible fruits after flower
Akebia Ampelopsis	Akebia Boston ivy	Violet brown; cinnamon center in spring Foliage highly colored in fall			ing. Good where dense shade is not required; very graceful in habit. Most popular of all vines for covering smooth surfaces such as brick and stone walls, etc. I setting out dormant plants prune back to 6".
Bignonia	Trumpet vine	Very large trumpet shape; red or orange			Semi-climbing, especially good for covering rough stone work, tall stumps, porch trellises, et Unique and attractive foliage.
Clematis paniculata Evonymus Honeysuckle	Virgin's Bower Evonymus Woodbine	Fragrant pure white flowers in August and Sep- tember Foliage, green or green and white Red, yellow and white; very fragrant			Extremely hardy and tobust; most satisfactory late flowering vine. Especially good for porche Flowers followed by feathery silver seed pods.  Extremely hardy; good in place of English ivy in cold sections. Evergreen.  Old favorite; one of the most popular for porches and trailing covers. Sunny position; goo
Vistaria	Wistaria	Purple or white; immense pendent panicles			variegated foliage. Of twining, not clinging habit, especially good for pergolas, etc. Attains great height with suit: ble support. Sunny position; rich soil.

### SUMMER FLOWERING BULBS

FLOWER	HEIGHT	COLOR	SEASON OF BLOOM	DIRECTIONS
Anemone Begonia Calla	12"-18" 12"-18" 18"-24"	White, crimson, pink, blue Pink, yellow, red Yellow, white	July-Sept. June-Sept. June-Sept.	Plant in May in sheltered position, in groups, about 6" x 6". Hardy. Start in heat, or plant in rich, light soil in open. Water freely. Plant suitable varieties in rich warm soil. Plenty of water; store for winter in warm temperature.
Canna Caladium Dahlia	2'-6' 18''-5' 2'-6'	Pink, yellow, red, white (Foliage) green or variegated White, pink, yellow, red, variegated	June-Oct. June-Oct.	Start in beat, or plant dormant roots in rich soil. Store for winter.  Sheltered, semi-shaded position, light rich soil. Store in warm place.  Start in heat or outdoors after danger of frost, in deep, rich soil; thin and disbud for goo blooms.
Gladiolus Ranunculus Montbretia Tigridia Tuberose Zephyranthus	2'-5' 2' 2'-4' 18" 2'-3' 8"-10"	Piñk, red, white, yellow White, yellow, scarlet Red, yellow, scarlet Blue, pink, yellow, scarlet White White, pink	July to frost May-June June-Oct. Juny-Sept. June-Sept.	Succession of plantings from April to June for continuous bloom; store cool for winter. Single and double forms; easily grown; good for cuttings. Culture similar to that of gladiolus. Plant 3" to 6" each way; take up or protect. Culture same as above but should be stored for winter. Plant out in May, or start in heat. June and July planting for late flowers. Good for masses or borders; plant two clumps, in early spring. Store like gladioli.

# SUPPLY A CONTINUOUS FOR VEGETABLES

DIRECTIONS	In dryest soil available; cover first planting 1" deep. In dryest soil available; cover first planting 1" deep. In dryest soil available; cover first planting 1" deep. Plant with eye down, when there is prospect of several days' dry weather. Place poles before planting in rich hills, thin to best plants. Eye down in slightly raised hills thin to best two plants. First planting shallow, about ½" deep and extra thick. In dry weather, soak seeds; from well, for winter use sow about three months before harvesting. Transplant at four to six weeks; same treatment as late cabbage; pinch out tops of stalks when "buttons" are formed. See out well hardened off plants as soon as ground can be worked; fertilize in rows. Light applications of intrate of soda beneficial; to keep mature heads from splitting, pull enough to loosen roots in soil. Transplant from seed sown June 1st; use water in bottoms of holes if soil is dry; firm well. First planting extra thick only ½" to ½" deep; thin early. Select rich, deep soil to get smooth roots; for storing plant about 90 days before harvesting time. Enrich rows; protect from curvornns; plenty of water when heading. Sow seeds six to eight weeks before transplanting: hill up; store in cellar for winter. First planting in dry soil; cover only 1" deep; give protected sunny exposure if possible. Thin to 3 or 4 stalks in hill; plant 3" deep in dry weather; cultivate shallow. Enrich hills, thin to 3 or 4 plants, protect from porato bugs. Culture same as for letture same as for letture save that leaves should be tied up to blanch for use. Transplant at size of lead pencil to deep, well enriched tentomes; hill up to bleach. Sow seed when plants are set out, and for succession plantings, thining our early.	Thin our early, for fall plant again July 15 to August 15.  Give plenty of water; top-dress with nitrate of soad; thin out as soon as possible.  Enrich hills with old compost and wood ashres; add sand in heavy soil; protect from striped beetle.  Same as for musk melons; pinch out tips of runners at 5' or 6'.  Give warm, rich soil; nitrate of soda during early growth; treat like corn; use pods while young.  Keep clean; top-dress with nitrate of soda during early growth; treat like corn; use pods while young.  Keep clean; top-dress with nitrate of soda during early growth; treat like corn; use pods while young.  Soat seed ings and transplant to rich soil, give plenty of water.  Soat seed my and transplant to rich soil, give plenty of water.  Soat seed reventy-dour hours; cover very lightly; thin out early.  Cover first planting about 1'd deep; sow only a small quantity as winkled varieties 2'' x 2'', rake first plantings in light soil, or on slightly raised drill 15'' to 1'' deep.  Make later planting so thereth. Alling in gradually as vines grow; plant early varieties 2'' x 2'', rake first plantings in light soil, or on slightly raised drill 15'' to 1'' deep.  Make later planting so thereth. Alling in gradually as vines grow; plant early varieties 1'' for fall crop.  Select deep, loose soil or trench before planting to get best results.  Top-dress with nitrate of soda during early growth.  For earliest results sprout four weeks in sunlight before planting.  For earliest results sprout four weeks in sunlight before planting.  For earliest results sprout four weeks in sunlight before planting.  For earliest results sprout four weeks in sunlight before planting.  For earliest results should not be planted until quite late, as they are better both in keeping and eating qualities not overgrown.  Excellent for storing for winter; culture simlant or turnip; late planting may be used for table; as puly intrate of soda.  For bush 4' x3'; enrich hills; thin to two of three plants; protect from squash bugs.  For bush 4' x3
AMOUNT OR NUMBER FOR 50' ROW	1 pt. 157 x 47 y 17 y	23.24.24.24.24.24.24.24.24.24.24.24.24.24.
SUCCESSIVE PLANTINGS Weeks Apart F	2-3: to Aug. 15 3-4: to June 15 3-4: to June 15 3-4: to June 15 3-4: to Aug. 15 3-4: to Aug. 15 3-4: to Aug. 15 3-4: to July 15 3-4: to July 15 3-5 4: to July 15 3-5 5-5 5-5 5-5 5-5 5-5 5-5 5-5 5-5 5-	3: to May 20 June 15 J
FIRST	April 15 April 20 April 20 April 20 April 20 May 1 June 15 April 15 April 15 April 15 April 16 May 1 April 10	April 10 P May 15 P May 15 P May 15 P April 1 P April 10 P
REPRESENTATIVE VARIETY	Early Bountiful Rust Proof Golden Wax Burpee Improved Golden Cluster Early Model Detroit Dark Red Dattoit Dark Red Dansen Ball Head Early Scarlet Horn Dansieh Ball Head Early Scarlet Horn Dansieh Ball Head Early Scowball Golden Self-Blanching Winter Queen Golden Bantam Coultry Gentleman Davis Perfect Back Banty Giant Fringed American Flag Grand Rapids	Big Boston Birtle Ice Nortel Goen Intel Ice Nortel Goen Intel Server Indererson's Bush Ilabert Honey Whire Velvet Yellow Danvers Gigartic Gibraltar Emerald Curled Gradus (Lirtle Marvel Dwarf) Alderman (British Wonder Dwarf) Ruby King Coral Gem Bouquet Coral Gem Bouquet Irish Cobbler Coral Gem Bouquet Crimson Giant Globe Crimson Giant Globe Charters Sandwich Island Victoria Colden Necklace Sandwich Island Victoria Golden Summer Crookneck Hubbard Hubbard Bonnei Best (Chalk's Jewel) Stone White Globe White Globe
VEGETABLE AND TYPE	Bean, bush, Green Pod Bean, bush, Wax Bean, pole, Lima Bean, pole, Lima Beets, Ex. Early Beets, main and winter figuses's Sprouts Cabbage, Ex. Early Cabbage, Ex. Early Cabbage, Ex. Early Catrots, main and winter Carrots, main and winter Carrots, main and winter Carrots, main and winter Carrots, main crop, corn, main crop, paring and fall celery, Early Corn, main crop, Corn, Early Cor	Lettuand fall Lettuand fall Melons, musk, bush Melons, musk, bush Melons, musk, bush Melons, seer? Onions, 'seers' Peas, smooth Peas, smooth Peas, smooth Peppers, large fruited Separations Radish, winter Radish, winter Radish, winter Squash, winter Squash, winter Tomaco, Early Tomaco, Early Tomaco, Early Tomaco, main crop Turnip, summer



# NOTES ON VEGETABLES

"P"-plants from frames or seed-beds.

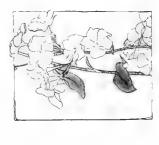
First figure under Directions indicates distance between 1001; second between plants in row after thinning, or between hills.

Drills are continuous rows, in which the seeds are sown near together, and the plants even after thinning stand at irregular distances, usually rouching.

Thinning consists in pulling out the surplus seedlings as soon as most of the seeds are up.

Hilling is drawing the soil up toward the roots or stems; often overdone—usually a wide, slight hill is the best.

Blanching is necessary to prepare some plants such as celery and endive, for eating; excluding the light, banking with earth, tying up the leaves, covering with prepared paper, and storing accomplish this result.



SPRAYING **EQUIPMENT** for the WAR on INSECT PESTS



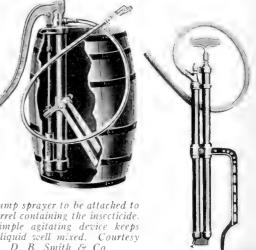
In communities where fruit trees are plentiful it is often feasible for a number of owners to unite in purchasing a large power sprayer whose original cost, maintenance and services can be shared by all. Courtesy of Bateman Mfg. Co.



(Right) A knapsack sprayer in use. Its weight is supported by a broad shoulder strap, leaving the hands free to operate the nozzle. Only occasional pumping is needed to maintain the air pressure



A pump sprayer to be attached to a barrel containing the insecticide. A simple agitating device keeps the liquid well mixed. Courtesy D. B. Smith & Co.



(Above) The compressed air knapsack sprayer,
which is pumped
up by means of
the central handle,
is the best type of
s mall apparatus.
Several good
makes are on the
market



The pump sprayer above is designed to be used with a pail of liquid. The two tubes go inside the pail and an outside footpiece holds them in place while operating. Courtesy D. B. Smith & Co.

A man-power device used for orchard work where
considerable spraying is to be done
It can be mounted
on an ordinary
farm wagon
Courtesy Bateman
Mfg. Co.

Leaf spot; rust Mildew

Aster beetle

See above. Powdery, dirty white deposit on leaves.

Active, long-legged beetle, 1/2" to 1/4" in length, eating flowers and foliage.

Spray with Bordeaux. Keep new growth covered. Prune infected parts; dust with flowers of sulphur; thin sufficiently for free circulation of air. Strong arsenate of lead spray; knock bugs in early morning into can of kerosene and water.

Asters, carnations, etc.
Roses and some others.
Asters preferably, and some other flowers.

### THE PESTS AS THEY APPEAR

IDENTIFICATION When to Look For ATTACKS CONTROL IN THE VEGETABLE GARDEN Poison bait before planting, and give plants protection with 4" paper bands 1" in soil; also hand picking.
Contact spray, two or three applications, at intervals of a week or ten days, especially against under side of foliage, and on folding leaves.
Spray or dust with arsenate of lead or Paris green; hand picked from egg-plant.
Bordeaux mixture and arsenate of lead; tobacco dust on seedlings.
Plowing late in fall; summer following; trapping adults (May beetles); destroying grubs and resetting affected plants.
Protect cabbage group with tarred paper guards; poison paper for adult flies before laying eggs; burn infested plants.
Keep garden surroundings clean; burn old stalks, weeds, etc., in fall. Sluggish, fat, brown soil worm, 34" to 2" long with stripe along side; works at night.
Small, green or black, soft bodied flies Through season, mostly April to June, cutting off young plants and seed-lings. Dig around cut-off plant.
Throughout season, especially on half-grown plants and in dry weather on under side of leaves.
Through season, first on earliest sprouting potatoes; three broods.
Mostly in May and June on seedlings; leaves punctured.
Through season; especially numerous in newly plowed sod ground and moist Especially cabbage, cauliflower and to-mato plants. Cabbage,, cauliflower, lettuce, peas, etc. Cut-worms at night. mall, green or black, soft bodied flies about  $\frac{1}{16} n^{\alpha}$  long, congregating in large numbers. Aphis or "plant louse" Potatoes, egg - plants, tomatoes.
Potatoes, tomato, cab-bage group, turnips. Strawberries especial-ly; also corn, po-tatoes, etc.
Onions, cabbage, cau-liflower turnips etc. Potato beetle Common striped beetle or bug 1/2" long. Minute, black, active jumping beetle. Flea beetle Large, soft, white, repulsive grub or worm, feeding on roots under ground; 1/2" to 11/4" long.

Small white worm or grub 1/4" to 3/2" long. hrough season; especially numerous in newly plowed sod ground and moist White grub Through season; first indication wilting of plants without apparent cause. Root maggot liflower, turnips, etc. Corn, chard, beets, etc. Lives over on burdock, etc.
Cucumbers, melons and vine crops.
Squash, pumpkins and other vine crops. White, smooth borer, 1" to 11/4" long. Second brood in early fall. Moths appear in May, caterpillars soon Corn borer Arsenate of lead with Bordeaux mixture. Screen young plants and sprinkle with tobacco dust. Trap old bug under shingles and destroy; spray young with nicotine or kerosene emulsion; screen young plants. Through season, especially as vines begin to run, and in dry weather.
Usually appears first late in June, remaining until cold weather. Young hatched from brown eggs on under side of leaves; resemble large aphis.
Through warm season, especially under dry or overcrowded conditions; prevalent in frames or greenhouses.
Throughout season, especially on neglected or backward plants.
June-Aug., especially on new growth.
Throughout season, usually first in May or June; leaves curl up abnormally. Small, very active, black and yellow striped beetle, ½" or so long.
Dull black, flat, very active beetle with long legs, often moving backwards or sideways when disturbed; ½" to ¾" Cucumber beetle bug Squash bu ("stink" bug) crops. Spray with nicotine or kerosene emulsion for young, which resemble lice on under sides of leaves; tobacco dust as a repellent. Thorough, forceful spraying with kerosene emulsion or with nicotine.

Arsenate of lead; cut and burn stalks in fall. Carefully remove, bury or burn infested parts of plants; spray as for aphis. Minute, tenacious, white winged fly, congregating in large numbers until disturbed. White fly Tomato, cucumber, Very minute, cause yellowish appear-ance or twisted leaves. Active, yellow spotted beetle, ½" long. Small green aphis. See Aphis. Thrip Onions and leeks. Asparagus foliage.
Melons, cucumbers
and other curcubits; strawberries.
Onions and leeks. Asparagus beetle Melon louse Minute, active, whitish insect barely visible to the naked eye, lodging especially down between leaves.

Large, green horned worm, often several inches long.

"Rusting" or yellowing of foliage or stalks. Through season, especially June to August; onion tops twisted and curled, permaturely yellow.

From mid-summer to early fall; strips foliage clean, conspicuous inroads.

Through season, especially late June to August. Onion thrip Nicotine spray forcibly applied; kerosene emulsion. Tomato and tobacco mostly. Various vegetables, especially celery, beans, asparagus. Cucumbers, melons, Arsenate of lead; hand picking into can or pail, and late fall plowing.

Avoid working when foliage is wet; successive spraying with Bordeaux. On maturing celery use ammoniacal solution of copper carbonate.

Spray with Bordeaux every week or ten days. Tomato worm Whitish coating or spotting of the foliage, spreading rapidly.
Usually a yellowing or spotting of the leaves, progressing very rapidly.
Spots in leaves, stems, or fruit turning brown or black. Mildew Favoring conditions same as for blight; ucumbers, melons, lima beans, etc. Favoring conditions same as for blight, also crowded foliage.

Throughout season, especially in muggy weather and low, closed places.

Throughout season, especially in warm weather after rainy spells. Potatoes, beans, celery, cucumber, etc.
Tomatoes, beans and many others. Spray with Bordeaux at or before first signs and repeat frequently to keep all growth covered. Bordeaux mixture, removing surplus foliage, and in the case of fruits that touch. Blight Leaf spot or rot IN THE FRUIT GARDEN Minute, yellowish, sucking insects covered with small shell or scale, the size of a pin-head; presence indicated by gray scurvy appearance of bark, and minute red rimmed spots on fruit. Dark brown scale like elongated oyster shell about ½" in length, the young resembling active whitish lice.

Bright green aphis. Throughout season; multiplies with extraordinary rapidity. Dormant sprays in early spring or fall, using lime sulphur, miscible oil or kerosene emulsion. Scale, San Tosé Apple and other fruit trees. Throughout season, young hatching in May or early June. Apple and other fruit Same as for San José; also nicotine or kerosene emulsion as soon as young hatch. Scale, oyster shell Dormant spray before leaves come out; nicotine spray on young foliage.

Spray with lime sulphur before blossoms open, after blossoms fall, and two weeks later; burn leaves and twigs in fall.

Destroy egg masses in winter; wipe out tents as soon as visible with kerosene smudge in spring. Arsenate of lead spray for matured worms.

Arsenate of lead when leaves appear, before buds open.

Spray with arsenate of lead until fruit forms; after that, hellebore.

Spray with arsenate of lead just before petals fall, before calix closes; ten days later and again in about four weeks; band trunks during July. Throughout season, especially on the sides of new leaves.
Throughout season, spreads most during spring. Apples, peaches, plums. Apple and pear. Apple aphis Causes dark colored spots on leaves or fruit. Scab, apple Striped caterpillars in large masses in webs or "tents." Apple, cherry, other trees. Caterpillar, tent Early in spring; "tents" at first in conspicuous, gradually enlarged. Light brown caterpillar, head and legs dark.

Green worm with black spots about 1" Especially apple buds. Bud moth Early in spring before buds open. Currant and goose-berry. Apple. Before blossoms open, usually first on lower leaves. In spring and early summer. Currant worm he "mother" of wormy apples; moth is small and chocolate colored; worm hatches on the outside, usually in blossom end, and eats in; about 1½" long. "measuring worm," 1" or more in Coddling moth Arsenate of lead, when worms appear; band trunks in March or early April. Strong miscible oil or kerosene emulsion spray; just before leaves come out and again in fall. Spray with lime sulphur and strong arsenate of lead; for best results jar trees every cool morn-ing, and catch beetles on sheet spread beneath. Canker worm May and June. Apple. A measuring worm, 1" or more in length.

Small mite causing leaf blisters turning from light green to red and brown Small, grayish beetle, 3" to about 1/4" long. Back mottled black and white; has a conspicuous "snout." Blister mite Throughout season. Pear and apple. In early summer when fruits are be-ginning to form; another generation in August. Curculio Injures young fruits by puncturing them to eat and lay eggs; apples, peach, plum. Apple and grapes. Through season, indicated by leaves turning brown and drying up; "hop-pers" working on the under side. Summer; especially after wet weather and where tall weeds or grass are left near the vines. Spray under side of leaves with strong kerosene emulsion. Small, slim, yellowish hoppers with blunt heads. Leaf hopper Spray with Bordeaux till mid-July; then ammoniacal solution copper carbonate; for few vines bunches may be covered with paper bags; dormant spray with lime sulphur or miscible oil; gather fallen fruit and burn. Rot, black Fruits turn purplish brown and become shriveled. Grapes. IN THE FLOWER GARDEN Roses, sweet peas and most soft-wooded plants. Soft-wooded plants and new growth on some hard-wooded plants such as fuchsias. See aphis above. Where foliage is thick, in axils of leaves or growing tips. Nicotine spray; kerosene emulsion. Similar to those attacking vegetables described above. A p h i s louse) (plant Congregate in leaf axils throughout season; most likely on neglected plants in frames or on porches. Nicotine spray or paint with strong kerosene emul-sion, alcohol. Mealy bug Small, soft-bodied insect covered with small cotton-like specks. Arsenate of lead or Paris green extra strong; hand picking into kerosene and water most effective. Throughout season, especially May to July, when plants are in bloom. Yellowish, active, crawling beetle 1/2" or more long with long hooked legs. Roses mostly. Rose beetle

Throughout season.
Through season, especially after sudden changes in temperature.
Appears in numbers, August and Sep-

tember.



# FALL PLANTING TABLE

The questions of what, where and how to fall plant puzzie many home gardeners. Here they are answered briefly and without unessential verbiage. Let the following table be the basis of your flower and shrub planting this fall



Name	Brooms	Нетсит	Colors	Remarks
			-	
Aquilegia Aconitum Anchusa Anemones Carex (Sedge Chrysanthemy Dicentra Dictamnus Delphinium Ferns Foxgloves Hardy grasse Hardy pinks Hibiscus Helianthus Iris Perennial pop Primroses Phlox Rudheckia Savifraga Shasta daisv Spirca Stokesia Sweet William Salvia Trillium Veronica	May—June June—Sept. May—June Sept.—Oct. May—June May—June May—June May—June May—June May—July June—Sept. May—Oct. June—July S. May—Oct. May—June July—Aug. July—Sept. May—June June—Sept. April—May June—Aug. June—Aug. July—Aug. June—Sept. May—June July—Aug. Sept. May—June June—Sept. May—June July—Sept. May—June July—Sept. May—June July—Sept. May—June July—Aug. June—Sept. May—June July—Aug. June—Sept. June—Sept. June—Sept. June—Sept. June—Sept. June—Sept. June—Oct. May—June June—Aug.	3 - 4 3 - 5 3 - 5 1 - 2 1 - 2 2 - 4 2 - 3 3 - 6 1 - 4 4 - 5 2 - 5 1 5 - 8 5 - 6 2 - 3 2 - 4 1 - 3 4 - 6 1 - 3 4 - 6 1 - 3 1 -	Yellow, red	Hehanthus. Desirable for shrubbery planting and in clumps. Newer varieties. Iris. Select varieties for succession of bloom and character of soil. Peonies. Strong soil and sun or partial shade. Cover crown 2" deep. Perennial poppies. "Iceland" bloom all season; "Oriental" in May and June. Primroses. Good for half shady position and rockeries. Rich soil. Phlox. Select for succession of bloom; replant every three or four years. Rudbeckia. Hardy, robust; spreads by itself; excellent for screening. Saxifraga. Very hardy; thrives everywhere; good for bordering shrubbery. Shasta daisy. The popular original has been improved in later varieties. Spirea. Prefers semi-shade and moist soil; good for borders; permanent. Stokesia. Good for masses and beds in sunny positions; very hardy. Sweet William. Extremely hardy and permanent; fine for cutting. Salvia. Prefer moist and semi-shaded positions; several new varieties. Trillium. Good for moist, shady positions in the hardy border.
Berberis Deutzia Lilac (Syring: Hydrangea Forsythia Japanese map Rhus Spirea Althea Viburnum Weigela	April—Nov. April—Nov. April—Nov.  May—July May—June June—Sept. April May May—Oct. July May—June Aug.—Oct. May—June Aug.—June	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Foliage  Blue, white  Foliage  Pink, white	Vinca. Good as ground cover in shady position and under shrubs. Violets. A generous number should be included in every mixed border.  Berberis. Best general plant for informal hedges; color in autumn. Deutzia. Very hardy, permanent, and free-flowering; any soil; full sun. Lilac. Tall hedges, screens, and individual specimens. Hydrangea. Lawn specimens, hedge terminals, screening hedges. Forsythia. Single specimens and in mixed border. Best early shrub. Japanese maples. Invaluable alone on the large or small lawn. Rhus. Unique and effective. Good background shrub. Spirea. Invaluable in the mixed border; also isolated. Many varieties. Althea. Tall hedges and single specimens. Very hardy. Viburnum. Hardy and effective. Flowers followed by white or scarlet berries. Weigela. Extremely pretty and free-flowering. Graceful single specimens.
Tulips Narcissus Jonquils Hyacinths Lilies Snowdrops Scillas Crocus Spanish Iris. Grape Hyacin Anemones Allium Chionodoxa	Plant—Inches Apart Deep 4— 8 4— 6 6—12 5— 7 6— 8 4— 6 6—10 5— 7 12—24 6—10 2— 4 3— 4 2— 4 2— 4 2— 4 3— 4 6—12 3— 4 th. 2 3 3 4— 6 3 6— 2— 4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	White, yellow	Tulips. Most effective in long borders and in front of shrubs. Narcissus. N. poeticus and N. P. ornatus good for naturalizing. Jonquils. For the mixed border and for cutting. Plant early. Hyacinths. Best for formal and design bedding. Mass in variety. Lilies. Plant soon as received. Succession of bloom throughout summer. Snowdrops. Earliest flowering; naturalize in open woods or in rockery. Scillas. Under trees or on shady lawn; will stand close mowing. Crocus. Brightest of the early spring blooming bulbs. Naturalize. Spanish Iris. Prefer a light, friable soil; good for the mixed border. Grape Hyacinths. "Heavenly Blue" the best variety; plant in groups. Anemones. Prefer well-drained, sheltered position; good for rockery. Allium. Naturalize where grass does not have to be cut and in borders. Chionodoxa. Prettiest of the early blue spring flowers; naturalize in grass.

### FALL PLANTING INSTRUCTIONS

For the details of fall flanting, turn to various other pages in this book.

Be sure that the plants are in a healthy condition. Plants set out in the fall in a dormant or semi-dormant state do not give evidence of infestation. Buy straggly roots. Prepare holes for shrubs and put in plant food. Keep roots from a reliable nunscryman. Plants should be well matured; the wood should be firm and hard in the case of trees, shrubs and put in plant food. Keep roots moist. Most perennials that form in clumps or crowns should be set ont so that the tops are about level with, or slightly lower small fruits, and the season's period of flowering over in the case of ferennials. Set out immediately upon arrival.

Any ordinary good soil will answer for most plants. Avoid extremes of sand or clay. Thorough drainage is essential. Heavy soils will be benefited by an addition of coarse sand, gravel, coal ash, or broken brick. Line is good for both extremely heavy and light soils; it should be used with discretion.

The amount of soil preparation will depend on the quality of the first profit of the profit of the profit of the plants of the plants of the plants and profit food is necessary.

Be sure that the plants are in profer condition. Cut off broken or straggly roots.

Buy

Before planting see that all roots are in profer condition. Cut off broken or straggly roots.

Buy

Before planting see that all roots are in profer condition. Cut off broken or straggly roots.

Buy

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Before planting see that all roots are in profer condition.

Buy

Before planting see that all roots are in profer condition.

Buy

Bef

The amount of soil preparation will depend on the quality of the soil and the culture it has received a year or two pre-

Of the larger fruits, apples and pears may be set out now, but cherries, peaches and plums should be left until spring. Of the small fruits, raspberries, blackberries, gooseberries and currants may be set out to advantage this fall.

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